

NUMBERS & ODDITIES
a.k.a. the Spooks Newsletter
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Check for previous newsletters, info, sound samples and databases also

NUMBERS & ODDITIES <http://www.ary.luna.nl>

ONLINE DATABASE <http://www.spynumbers.com/numbersDB/>

Amazing how universal our hobby is. A quick check revealed that people from 114 countries have visited the N&O website in the 1st quarter of 2008. They come from Afghanistan, Alaska, Albania, Algeria, Antigua and Barbuda, Argentina, Armenia, Australia, Austria, Azerbaidjan, Bahrain, Belarus, Belgium, Bermuda, Bolivia, Bosnia-Herzegovina, Brazil, Bulgaria, Cambodia, Canada, Chile, China, Colombia, Costa Rica, Croatia, Cyprus, Czech Rep., Denmark, Djibouti, Ecuador, Egypt, El Salvador, Estonia, Faroe Islands, Fiji, Finland, France, French Polynesia, Georgia, Germany, Gibraltar, Greece, Guatemala, Hawaii, Hong Kong, Hungary, Iceland, India, Indonesia, Ireland, Israel, Italy, Jamaica, Japan, Jordan, Kazakhstan, Kuwait, Kyrgystan, Latvia, Lebanon, Liechtenstein, Lithuania, Luxemburg, Madagascar, Malaysia, Malta, Mexico, Moldavia, Nepal, Netherlands, Netherlands Antilles, New Zealand, Nicaragua, Nigeria, Niue, Norway, Oman, Pakistan, Panama, Peru, Philippines, Poland, Portugal, Puerto Rico, Romania, Russia, San Marino, Saudi Arabia, Serbia, Singapore, Slovakia, Slovenia, Solomon Islands, Spain, Sri Lanka, Suid Afrika, Sweden, Switzerland, Taiwan, Thailand, Tonga, Trinidad & Tobago, Turkey, Turkmenistan, Uganda, Ukraine, United Arab Emirates, United Kingdom, United States of America, Uruguay, Venezuela, Vietnam, Yemen, and Zambia. We would be able to find much more information about the location of stations if we would get logs from everyone. Too bad that this doesn't happen :-)

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Peter Berrett posted a note about a numbers stations item that he broadcasts in his show. If you are not interested in the complete show, note that the numbers item starts after 10 minutes. You can download the episode at:

<http://www.amateurlogic.com>

Peter is a co-host on an IPTV show called Amateurlogic and is located in Melbourne, Australia while George and Tommy are located in Mississippi, USA. They use Skype video to communicate. Episode 20 of Amateurlogic features a 10 minute segment about numbers stations. Simon Mason supplied much of the

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∴ ∴ ∴ E10

Reported by Richard and Sam:

6575 kHz, 1610 UTC, 14-4: HNC Z

6575 kHz, 2207 UTC, 17-4: HNC-F

6575 kHz, 2156 UTC, 26-4: HNC F

6575 kHz, 2142 UTC, 26-4: HNC

Dan submitted the transcript of an EZI transmission on 6840 kHz at 0300 UTC on 21-4. One character is missing, though.

Group 108

PNXRK	ZREJU	WZWBG	FGWMV	YUZMQ	VCQUJ	YBBQH	HBBYP	CUEPI	OHMPG
ZXWVV	KFXGD	PZMDY	EXOVG	ZIXSK	DWDBD	QPNLJ	PFOBFB	FEDML	JDNES
PCSRN	GLHWL	PWINP	JTRLQ	JFLVN	FSHMS	SIXEV	STTFG	GMQDN	KYBOW
MGKZP	ILMUK	WIHPM	KSQGC	COJZO	LAFLG	ZYEAJ	JMLYX	AAVUY	WUTMK
UXMDC	INCSO	IEOCX	IHTGJ	QGLOB	YACQJ	YXZLB	HTSLI	GUWJI	NXONF
CPOKS	EJMXO	DNPYL	PVXBQ	XJLVS	VUQAX	BNQCG	KIXVS	IXGST	FUZUA
GTGFZ	HSYAX	XPZCP	HQJNW	BOGIC	NJKNV	JHCUK	VOLUM	JBVQI	ZXYET
CYUOU	EIUCY	FZDRU	SGDUF	FTUXY	CEVTF	UARZR	BFMFI	LHIZW	NVPDW
IENTS	NYULD	NRKXQ	QFUFN	IJMVK	BNROS	ISTOI	CYAKN	CUVJG	EYRP?
NBTZA	TUCJJ	KLRHO	HPRWS	KZBON	SHULN	QNEEA	STFLQ	VCGIW	CHXJU
GEAUF	TPLSY	PSQLT	LGAVH	GOOYH	DEONO	ASIHU	LNJKT		

Another short one: EZI with a transmission on 6840 kHz at 0330 UTC on 22-4.

Group 10

ABOZM KJWVA WDOHA FLVBA EMDLJ EVFOH EVEJA HMIMK MXFBN YIHDE

* MORSE STATIONS *

$$\begin{array}{c} \vdots \\ \vdots \\ \vdots \end{array} \quad \text{MX}$$

- Cluster beacons.

D - 3593.7, 4557.7, 5153.7, 7038.7, 8493.7, 10871.7, 13527.7, 16331.7 *)

P - 3593.8, 4557.8, 5153.8, 7038.8, 8494.8, 10871.8, 13527.8, 16331.8

S - 4557.9, 5153.9, 7038.9, 8494.9, 10871.9, 13527.9, 16331.9

C - 4558.0, 5154.0, 7039.0, 8495.0, 10872.0, 13528.0, 16332.0

```
A - not reported
F - 7039.2
K - 5154.3
M - 5154.4, 7039.4, 10872.4, 13528.4
```

*) Spurious "D" on 7000 and 7044.7 kHz

- Channel markers.

P - 474, 2330.8, 3181, 3291, 3327, 3593.7, 3699.5, 3837, 4079, 5881 kHz *)
R - 4325.9, 5465.9 kHz
V - 3658 kHz

Alf found a "V" marker on two frequencies. The characteristics are not the same as the "V" marker on 3658 kHz. I don't know if they are related.
6516.5 kHz, 2240 UTC, 27-4: 43x "V" & 6 dots, no ID.
6996.5 kHz, 0005 UTC, 28-4: 43x "V" & 6 dots, no ID.

*) Messages heard:

"RDL RDL RDL 84470 88857 84470 88857 84470 88857 K"
"RDL RDL RDL 35162 50210 35162 50210 35162 50210 K"

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::: M08a

Jon-FL writes that he has found a long sought secondary Cuban frequency: 11565 kHz at 0400 UTC. The signal was very weak.

<<<<<<<<<-0-0-0-0-0-0-0-0-0-0->>>>>>>>>>

::: M18

M18 was heard on 4073 kHz with its usual time strings (UTC + 6 hours).

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::: M21

Only two reports of the Russian Air Defense stations:

```
Id "0" : 3314 kHz
Id "9" : 7994 kHz
```

Samples:

=99?+849?9???? =1277+54+3+115+ =990146??0???? =990103??0????

<<<<<<<<<-0-0-0-0-0-0-0-0-0-0->>>>>>>>>>

FAV22: 7415.0 kHz, 0747 UTC, 21-4: "AR CQ DE FAV22 VA"
8154.5 kHz, 0853 UTC, 08-4: "CQ DE FAV22 VA"
14486.0 kHz, 0830 UTC, 17-4: "VVV DE FAV22"

2550.0	2843.5	3183.5	3253.0	4579.5	4911.0	5133.9	5149.0
5154.0	5193.5	5194.0	5231.0	5248.0	5321.0	5442.5	5454.5
5771.5	5828.5	5881.5	6788.0	6835.0	6840.0	6851.0	6857.5
6889.5	6923.5	6930.0	6934.5	6942.5	6963.1	6964.0	6976.0
6981.0	6983.0	7419.6	7426.5	7586.0	7831.0	7851.0	7852.0
7991.0	8008.1	8032.0	8129.0	8154.5	9057.0	9084.5	9381.0
10961.0	11103.0	12135.9	12202.0	12686.3	15911.0	16241.0	kHz

∴ M42 & X06

[illegible]

18245.5	1000	07-4	DOSC. Mode: Crowd36
12199.0	1535	07-4	Mazielka. Sequence: 532614
8083.0	1816	08-4	Mazielka. Sequence: 154632
16025.0	1000	08-4	Mazielka. Sequence: 156234
14871.0	1502	08-4	Mazielka. Sequence: 156234
12224.0	1431	09-4	Mazielka. Sequence: 453125
12224.0	1431	09-4	Mazielka. Sequence: 453125
13419.0	0726	09-4	Mazielka. Sequence: 465132
13419.0	0726	09-4	Mazielka. Sequence: 465132
14655.5	1553	10-4	DOSC. Mode: Crowd36
11415.5	1541	10-4	DOSC. Mode: Crowd36
14871.0	1511	10-4	Mazielka. Sequence: 156234
14871.0	1511	10-4	Mazielka. Sequence: 156234
13506.0	0937	10-4	Mazielka. Sequence: 164532
13506.0	0937	10-4	Mazielka. Sequence: 164532
15828.0	1556	10-4	Mazielka. Sequence: 256134
15828.0	1556	10-4	Mazielka. Sequence: 256134
12195.0	1544	10-4	Mazielka. Sequence: 314265
12195.0	1544	10-4	Mazielka. Sequence: 314265
9923.0	1532	10-4	Mazielka. Sequence: 463125
9923.0	1532	10-4	Mazielka. Sequence: 463125
12224.0	1523	10-4	Mazielka. Sequence: 463125
12224.0	1523	10-4	Mazielka. Sequence: 463125
10535.0	1521	10-4	Mazielka. Sequence: 564213
10535.0	1521	10-4	Mazielka. Sequence: 564213
10601.0	1740	11-4	Mazielka. Sequence: 145632
10601.0	1740	11-4	Mazielka. Sequence: 145632
10653.0	0645	11-4	Mazielka. Sequence: 356412
10653.0	0645	11-4	Mazielka. Sequence: 356412
12224.0	1510	11-4	Mazielka. Sequence: 463125
9923.0	1520	11-4	Mazielka. Sequence: 463125
12224.0	1510	11-4	Mazielka. Sequence: 463125
9923.0	1520	11-4	Mazielka. Sequence: 463125
12213.0	0940	11-4	Mazielka. Sequence: 615243
13436.0	1240	13-4	Russian intel. Mode: Baudot 200/500.
			Multifigure groups like 070903063966478109=83313
11424.0	0900	14-4	Mazielka. Sequence: 421635
11424.0	0900	14-4	Mazielka. Sequence: 421635
12224.0	0936	14-4	Mazielka. Sequence: 463125
12224.0	0936	14-4	Mazielka. Sequence: 463125
13401.0	0848	15-4	Mazielka. Sequence: 154263
13401.0	0848	15-4	Mazielka. Sequence: 154263
8125.5	0820	16-4	DOSC. Mode: Crowd36
13465.0	1102	16-4	Mazielka. Sequence: 362154
13465.0	1102	16-4	Mazielka. Sequence: 362154
12152.0	0740	16-4	Mazielka. Sequence: 432516
12224.0	0800	16-4	Mazielka. Sequence: 463125
6823.5	1744	17-4	DOSC. Mode: Crowd36

16025.0	1222	17-4	Mazielka. Sequence: 156234
13448.0	0801	17-4	Mazielka. Sequence: 162543
14408.5	0903	23-4	DOSC. Mode: Crowd36
10335.0	1902	23-4	Mazielka. Sequence: 154632
8083.0	1900	23-4	Mazielka. Sequence: 154632
10535.0	1517	24-4	Mazielka. Sequence: 564213
14863.0	0748	25-4	Mazielka. Sequence: 615243
10193.0	2001	28-4	Mazielka. Sequence: 164532
9179.0	1935	28-4	Mazielka. Sequence: 164532
9145.0	1944	28-4	Mazielka. Sequence: 154632
6958.0	1949	28-4	Mazielka. Sequence: 154632
6962.0	1949	28-4	Mazielka. Sequence: 164532
12224.0	1541	28-4	Mazielka. Sequence: 463125
9300.0	1020	28-4	Mazielka. "1--515". One long dash, followed by 3 tones.
11424.0	0814	28-4	Mazielka. Sequence: 421635
12224.0	1410	29-4	Mazielka. Sequence: 463125

::: SK01

```

17435 18-4 1600 Mode: RDFT File 50109981.txt
8180 1904 0900 Mode: RDFT 3x 11269744 55362 1496 bytes
8180 22-4 0800 Mode: RDFT
9040 22-4 0900 Mode: PSK31 Modulation: PSK2220FEC 33453
8180 22-4 0900 Mode: PSK31 Modulation: PSK2220FEC fragment
8180 22-4 0900 Mode: RDFT 55236481 1496 bytes 44111
9240 22-4 1000 Mode: PSK31 Modulation: PSK2220FEC 33453
8180 24-4 0800 Mode: PSK31 no audio
9040 24-4 0900 Mode: PSK31 Modulation: PSK2220FEC
8180 24-4 0900 Mode: PSK31 no audio
8180 28-4 0800 Digital traffic
9240 24-4 1000 Mode: PSK31 Modulation: PSK2220FEC
8180 29-4 0800 Mode: RDFT 6x 8541237895 1496 bytes 10943
9040 29-4 0900 Mode: PSK31 Modulation: PSK2220FEC
8180 29-4 0900 Mode: RDFT 6x 8541237895 1496 bytes 10943
9240 29-4 1000 Mode: PSK31 Modulation: PSK2220FEC

```

Hugh sent us the transcript of 142 byte binary file with "b" in the first position. File 50109981.txt was transmitted in RDFT.

He writes: "This file had the same name as yesterdays, but was over twice the size. Yesterday's file had an a in its second character, and seemed to consist of all ASCII question marks. Today's had a "b" in its first character, which is common, and the rest indeed seemed to be binary. We may be onto something here. Here's the hex dump. I post these in hex because otherwise the binary strings can make computers think they're getting control characters like linefeeds and bells, and mess up the screen."

```

0000: 62 0C 01 01 00 73 38 17 62 66 96 98 97 00 81 31 b....s8.bf.....1
0010: 63 38 64 94 02 84 43 59 14 79 73 07 75 59 97 63 c8d...CY.ys.uY.c
0020: 04 17 81 57 55 18 10 70 82 07 14 22 46 47 24 49 ...WU..p..."FG$I
0030: 23 97 09 87 23 92 28 87 27 23 23 90 93 00 71 55 #...#.(.'##...qU
0040: 05 41 76 32 84 93 91 45 70 91 74 93 03 36 77 92 .Av2...Ep.t..6w.
0050: 96 97 57 64 21 97 67 37 40 43 75 28 60 07 30 87 ..Wd!.g7@Cu(`.0.
0060: 28 89 77 70 90 58 08 38 97 02 15 64 99 84 63 48 (.wp.X.8...d..cH
0070: 94 42 24 06 06 95 39 12 32 30 18 29 12 23 84 24 .B$...9.20.).#.$
0080: 66 61 64 36 42 79 96 75 01 54 81 65 51 11 fad6By.u.T.eQ.

```

Iron "translated" the file into 5FGs but some groups cannot be defined (yet). The first 4 characters are a mystery. The last 4 characters consist of the group count (55) and the other figures are undefined.

```

62    ???
0C    ???
01010 07338 17626 69698 97008 13163 38649 40284 43591 47973
07755 99763 04178 15755 18107 08207 14224 64724 49239 70987
23922 88727 23239 09300 71550 54176 32849 39145 70917 49303

```


36779 29697 57642 19767 37404 37528 60073 08728 89777 09058
08389 70215 64998 46348 94422 40606 95391 23230 18291 22384
24666 16436 42799 67501 54816
55 Number of groups
11 ???
fad6By ???

Iron says: "It seems, that sent by binary, so the letter "b" has meaning.
But more sample needs to examine to be proof."

A later file didn't have the "b" but shows the letter "a".

Hugh comments: "This time it's an "a." Stands for ASCII? Are we supposed to
treat this as an ASCII file instead of their usual binary hiding in a .TXT?"

Interesting gents. Too bad that I seldom hear these signals with a good enough
signal to decode the files myself.

* MILITARY STATIONS *

::: RUSSIAN, CIS, UKRAINIAN MILITARY SSB & CW STATIONS (including M32)

18.1 Russian High Command Moscow. Transmitter sites:

- 338th communications node Kara Balta / Chaldovar, Kyrgyzstan
- 43rd communications hub Vileyka Belarus ????
- probably Nizhniy Novgorod radio centre, Russia

"xxx xxx rks rks rdl rdl 61614 86999 neimuqij 21570145 k"

"xxx xxx rdl rdl 13518 21683 podseka 8481 2396 k"

"rdl rdl rdl 11111 t6585 836t7 t2t75 t2t75 9399t 32687 16468 iei7641
tt885 91735 97719 39142 49993 4312t 36649 t6616 t82t2 16792 3362rm
46794 491t2 23tt8 6t647 14791 81697 58721 25926 24583 39837 71316
t8t36 97284 71418 15735 24t35 k"

"rdl rdl rdl 22222 97845 59468 69911 69911 42687 67842 4t482 t8672
66815 t2744 t4777 21132 48873 14t92 46688 tt599 82222 29t94 94387
38642 96975 68462 4984t 34t9t 65953 83368 t241t 37181 313tt 5t94t
88893 67991 153t9 66172 9tt88 t41t6 62892 87164 82238 t9421 24t41 k"
"rdl rdl rdl 11111 16827 191t9 62442 62442 42528 26786 4t3t6 t6656
81584 89tt2 95t8t 77574 83773 828t4 t1427 1t4t2 65711 t11t2 78335
45913 41852 6755t 41891 1t967 72612 67883 47617 23t28 k"

21.1 Russian High Command Moscow, probably Chaldovar Radio Centre Kyrgyzstan.

"uuu uuu uuu rdl rdl rdl 19023 89031 19023 89031 19023 89031 k"

474.0 Russian Navy, Kaliningrad: RMP

2330.8 Russian Navy, Kaliningrad: RMP
 3181.0 Russian Navy, Kaliningrad: RMP
 3291.0 Russian Navy, Kaliningrad: RMP
 3593.7 Russian Navy, Kaliningrad: RMP
 3837.0 Russian Navy, Kaliningrad: RMP with "RDL" messages
 "RDL RDL RDL 84470 88857 84470 88857 84470 88857 K"
 "RDL RDL RDL 35162 50210 35162 50210 35162 50210 K"
 4456.0 Russian Mil: 3AG6, FAGK, LAX5
 5224.0 Russian Navy: RCV msg to RIP90
 5325.0 Russian Mil: RND79 wkg RFT6
 5400.5 Russian Navy: RKN "xxx xxx rkn qtc"
 5881.0 Russian Navy, Kaliningrad: RMP
 6422.0 Russian Navy, Kaliningrad: RMP wkg RLA88 for QSA?
 6482.0 Russian Mil: RGT77
 6812.0 Russian Mil: "DZCR DZCR DZCR QTC 347"
 6999.0 Russian Mil. Voice msgs
 7002.0 Russian Mil: RGT77
 7041.0 Russian Mil: BC6B
 7046.0 Russian Mil. "XXX PABA 61653 OKTAWA 9653"
 "XXX PABA 77790 FALXCHYWYJ 1812 K"
 7048.0 Russian Mil: RZTK
 7056.0 Russian Mil: ZBPN, VZPR
 7574.0 Russian Navy: RCV
 7640.0 Russian Navy, Kaliningrad: RMP
 7664.0 Russian Navy: RIW wkg RKZ "RKZ RKZ RKZ DE RIW RIW QTC 797 26 2"
 7964.0 CIS Mil: "W8PR DE SYFQ QTC 241 16 28 23T6 241 = 7T7 = PPPPP"
 7969.0 CIS Military. "...L de ..3U QTA 829 K. R K"
 7980.0 Russian Mil: RJF94 clg RJC38, RCB, RJC48, RCH84
 8182.0 Russian Mil: RJE56 msg to RIT
 8585.0 Russian Air Force: "REA4 = 26150 23672 40660 61506 10194 82131 23746
 53760 61703 10177 82180 = REA4 K" //9193 kHz
 8816.0 Russian Naval Air:
 80619 wkg RJF94 (Central Sector Control, Moscow - PRIBOJ)
 80619 wkg RCB (Western Sector Control - KRAKET)
 47018 wkg RJF94
 47018 wkg RCB
 48018 QQL XLLP (prob Pushkin), QAH 5700 QAL XLOS (prob Ostrov/Verete)
 9074.8 Russian Navy: RCV26
 9100.0 Russian Naval Air: QAL (intend landing at) XUMU (possibly Chkalovskiy)
 QBD (Endurance) 0300. At 1411 signals QQM (landed) XUMU 1407
 9193.0 Russian Air Force: REA4 //8585 kHz
 11155.0 Russian Navy: wkg RKZ
 11408.0 Russian Air Force: REA4
 13469.0 Russian Mil: RJE56
 14050.0 Russian Mil: "XXX RGT77 KFDP 93728" //14284 kHz
 14092.0 Russian Mil: RGT77, WEGI "XXX WEGI 35137 HLOROC 3486 2230 k"
 14284.0 Russian Mil: "XXX RGT77 KFDP 93728" //14050 kHz
 16912.0 Russian Navy: RDL

<<<<<<<<<<-0-0-0-0-0-0-0-0-0-0->>>>>>>>>>

Fritz sent us some comments about the Russian flash messages:

"The most repeated codeword in CIS Ny strategic flash messages is "podarok". All xxx messages containing "podarok" use a different format, e.g.

xxx xxx RDL RDL 42698 podarok 01 1055 050 270 1551 k.

I compared 13 messages of those and found that

- ```
- the normal two 4FG groups were replaced by gr 7 to 11
- gr 5 was any 5 digit number, as usual
- gr 7 always was 00 or 01
- gr 8 and 11 apparently were time groups, all between 1030 and 1705
- gr 9 and 10 were 3FG (in increments of 5).
```

Only these messages so far exhibit a certain, visible regularity. I therefore assume their purpose is different from all other xxx messages (apart from LR43)."

Trond comments:

"Hello Fritz and UDXF group

Good to hear from you again. I guess you too has observed the increase in xxx then T600 msgs on 21k1 as well as the general increase in Russian / (CIS) VLF test bcsts.

But back to the topic:

Another one that is following the same pattern and is rx'ed on a "regular" basis is USTRELINA:

```
xxx xxx rdl rdl 04147 ustrelina 7448 5217 01 1020 065 120 1438 k
```

Here is another statistical observation based on a number of years of VLF monitoring:

Distribution of messages based on initial number in message:  
(initial number of 5fg/% of total messages received)

| 2 x 5fg | xxx msgsg |
|---------|-----------|
| -----   | -----     |
| 0/9.7   | 0/8.1     |
| 1/8.8   | 1/11.6    |
| 2/11.1  | 2/6.9     |
| 3/8.8   | 3/3.4     |

|        |        |
|--------|--------|
| 4/8.0  | 4/6.9  |
| 5/15.5 | 5/16.2 |
| 6/7.5  | 6/13.9 |
| 7/12.8 | 7/13.9 |
| 8/13.7 | 8/8.1  |
| 9/8.0  | 9/10.4 |

As you see has numbers in the 5000 series their fair share compared with other 5fg numbers."

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★ UTILITY ROUND-UP ★

::: PIRATE BEACONS

News:

- JA has a new frequency. It sends now on 14400.5 kHz.
- A new dasher transmits on 5678 kHz; 30 dashes per minute.
- Another new dasher operates on 16131 kHz.

Reports:

|          |                                                    |
|----------|----------------------------------------------------|
| 3450     | OK - Oklahoma                                      |
| 4077     | MO - Oklahoma                                      |
| 4079.7   | TMP - Temperature beacon, repeating TMP49          |
| 4089     | dasher                                             |
| 4094     | PA - Arkansas                                      |
| 4102.5   | W - Wind beacon, W & dits                          |
| 4110.8   | FL - Florida                                       |
| 4113.8   | FL - Florida                                       |
| 5678     | Colorado dasher (a.k.a. "honker" or "long dasher") |
| 6700.2   | dasher                                             |
| 8188.7   | W - Colorado                                       |
| 10235.6  | FL - Florida                                       |
| 13558    | HI                                                 |
| 14400    | JA - Colorado                                      |
| 14416.4  | JA - Colorado                                      |
| 16131    | Colorado dasher                                    |
| 16444.79 | Georgia dasher                                     |
| 17354.7  | FL Florida                                         |

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★ LOGS SECTION ★

|        |      |                                                                                                                   |
|--------|------|-------------------------------------------------------------------------------------------------------------------|
| 474    | MX   | Mode: CW Date/time: 19-4-2008, 2314 UTC<br>Remarks: Channel marker "P" Contr: (TJ)                                |
| 474    | MX   | Mode: CW Date/time: 19-4-2008, 2331 UTC<br>Remarks: Channel marker "P" Contr: (MPJ)                               |
| 2330.8 | MX   | Mode: CW Date/time: 29-4-2008, 2110 UTC<br>Remarks: Channel marker "P" Kaliningrad Contr: (AB)                    |
| 2456   | E10  | Mode: AM Date/time: 29-4-2008, 2134 UTC<br>Remarks: ART msg grp 92 //3415 kHz Contr: (SW2)                        |
| 2515.0 | E10  | Mode: USB Date/time: 4-4-2008, 0235 UTC<br>Remarks: PCD msg g41 Contr: (AVX)                                      |
| 2515.0 | E10  | Mode: USB Date/time: 4-4-2008, 0308 UTC<br>Remarks: PCD group 8 msg: pjkdthfgkp jkrun alaiw ifg<br>Contr: (AVX)   |
| 2550   | M51  | Mode: CW Date/time: 13-4-2008, 0442 UTC<br>Remarks: = nr 22 a 10 06:42:55 1980 = Contr: (PPA)                     |
| 2626.0 | E10  | Mode: AM Date/time: 2-4-2008, 2216 UTC<br>Remarks: FTJ rpt msg grp 60 [KJQCS] //02626 Contr: (SW2)                |
| 2843.5 | M51  | Mode: CW Date/time: 18-4-2008, 2016 UTC<br>Remarks: = NR 81 A 14 12:23:39 1980 = GIITD DFUSR<br>Contr: (BCI)      |
| 2844.0 | E10  | Mode: USB Date/time: 4-4-2008, 0241 UTC<br>Remarks: YHF msg group 46 Contr: (AVX)                                 |
| 2844.0 | E10  | Mode: USB Date/time: 4-4-2008, 0337 UTC<br>Remarks: YHF 2 msgs //2844 kHz Contr: (AVX)                            |
| 3025.0 | M08a | Mode: CW Date/time: Sat 5-4-2008, 1000 UTC<br>Remarks: ID 66056 13102 68037 Contr: (MS)                           |
| 3150   | E10  | Mode: AM Date/time: 29-4-2008, 1834 UTC<br>Remarks: PCD 2msgs msg 1 grp 40 Msg 2 grp 67<br>//4270 Contr: (SW2)    |
| 3183.5 | M51  | Mode: CW Date/time: 17-4-2008, 2115 UTC<br>Remarks: = NR 74 A 17 23:14:03 1980 = Contr: (SM)                      |
| 3253.0 | M51  | Mode: CW Date/time: 8-4-2008, 2135 UTC<br>Remarks: = NR 80 A 18:23:17 1980 = Contr: (BCI)                         |
| 3270   | E10  | Mode: AM Date/time: 29-4-2008, 2112 UTC<br>Remarks: ULX rpt msg grp 58 [XIBGN] Contr: (SW2)                       |
| 3292   | M08a | Mode: MCW Date/time: 8-4-2008, 0400 UTC<br>Remarks: ID 53688 16121 13830 Contr: (Jon-FL)                          |
| 3292   | M08a | Mode: MCW Date/time: 19-4-2008, 0400 UTC<br>Remarks: ID 11211 26441 45381 Contr: (Jon-FL)                         |
| 3292   | V02a | Mode: AM Date/time: 1-4-2008, 0200 UTC<br>Remarks: A 57174 81271 16083 Contr: (Jon-FL)                            |
| 3292   | V02a | Mode: AM Date/time: 8-4-2008, 0200 UTC<br>Remarks: A xxxxx xxxxx 33281 (late start, no callup)<br>Contr: (Jon-FL) |
| 3292   | V02a | Mode: AM Date/time: 12-4-2008, 0400 UTC<br>Remarks: A 73481 38772 50122 Contr: (Jon-FL)                           |
| 3292   | V02a | Mode: AM Date/time: 15-4-2008, 0400 UTC                                                                           |

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|        |      | Remarks: (audio problems, very weak) Contr: (Jon-FL)                                                               |
| 3292   | V02a | Mode: AM Date/time: 22-4-2008, 0200 UTC<br>Remarks: A 84762 68472 34851 Contr: (Jon-FL)                            |
| 3292   | V02a | Mode: AM Date/time: 22-4-2008, 0400 UTC<br>Remarks: A 22443 21111 85303 (early end) Contr: (Jon-FL)                |
| 3292   | V02a | Mode: AM Date/time: 26-4-2008, 0400 UTC<br>Remarks: A 52513 42633 70681 Contr: (Jon-FL)                            |
| 3292   | V02a | Mode: AM Date/time: 29-4-2008, 0200 UTC<br>Remarks: A xxxxx 80103 47861 (late start, no callup)<br>Contr: (Jon-FL) |
| 3292   | V02a | Mode: AM Date/time: 29-4-2008, 0400 UTC<br>Remarks: A 70563 20652 57431 Contr: (Jon-FL)                            |
| 3292.0 | V02a | Mode: AM Date/time: Sat 12-4-2008, 0400 UTC<br>Remarks: SSYL 5-fig atencion 73481 38772 50122<br>Contr: (Westli)   |
| 3314   | M21  | Mode: CW Date/time: 25-4-2008, 2103 UTC<br>Remarks: PVO =990103??0????? Contr: (AB)                                |
| 3327   | MX   | Mode: CW Date/time: 16-4-2008, 1848 UTC<br>Remarks: Channel marker "P" Contr: (AB)                                 |
| 3327   | MX   | Mode: CW Date/time: 16-4-2008, 2030 UTC<br>Remarks: Channel marker "P" + messages Contr: (AB)                      |
| 3327   | MX   | Mode: CW Date/time: 17-4-2008, 0514 UTC<br>Remarks: Marker "P" + msg "RDL RDL RDL 84470<br>88857 84 Contr: (CK)    |
| 3327   | MX   | Mode: CW Date/time: 24-4-2008, 1929 UTC<br>Remarks: Channel marker "P" Contr: (WP3)                                |
| 3360   | E10  | Mode: AM Date/time: 25-4-2008, 1801 UTC<br>Remarks: FTJ2 Contr: (SW2)                                              |
| 3360   | E10  | Mode: AM Date/time: 26-4-2008, 2134 UTC<br>Remarks: FTJ msg grp 7 Contr: (SW2)                                     |
| 3360   | E10  | Mode: AM Date/time: 28-4-2008, 2218 UTC<br>Remarks: FTJ rpt 2 msgs msg 1 grp 11 Contr: (SW2)                       |
| 3360   | E10  | Mode: AM Date/time: 29-4-2008, 2120 UTC<br>Remarks: FTJ rpt msg grp 90 [JOTVE] Contr: (SW2)                        |
| 3360   | E10  | Mode: AM Date/time: 29-4-2008, 2339 UTC<br>Remarks: FTJ rpt msg grp 31 [HTOXQ] Contr: (SW2)                        |
| 3360.0 | E10  | Mode: AM Date/time: 2-4-2008, 2216 UTC<br>Remarks: FTJ rpt msg grp 60 [KJQCS] //3360 Contr: (SW2)                  |
| 3389   | V02a | Mode: AM Date/time: 1-4-2008, 0100 UTC<br>Remarks: A 57174 81271 16083 Contr: (Jon-FL)                             |
| 3389   | V02a | Mode: AM Date/time: 8-4-2008, 0100 UTC<br>Remarks: A xxxxx 50845 33281 (late start, no callup)<br>Contr: (Jon-FL)  |
| 3389   | V02a | Mode: AM Date/time: 22-4-2008, 0100 UTC<br>Remarks: A xxxxx xxxxx 34851 (late start, no callup)<br>Contr: (Jon-FL) |
| 3389   | V02a | Mode: AM Date/time: 29-4-2008, 0100 UTC                                                                            |

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|        |      | Remarks: A 02523 80103 47861 (very late start, overrun) Contr: (Jon-FL)                                      |
| 3415   | E10  | Mode: AM Date/time: 27-4-2008, 1834 UTC<br>Remarks: ART msg grp 39 Contr: (SW2)                              |
| 3415   | E10  | Mode: AM Date/time: 27-4-2008, 2059 UTC<br>Remarks: ART2 Contr: (SW2)                                        |
| 3415   | E10  | Mode: AM Date/time: 28-4-2008, 2234 UTC<br>Remarks: ART msg grp 18 //2456Khz Contr: (SW2)                    |
| 3415   | E10  | Mode: AM Date/time: 29-4-2008, 2134 UTC<br>Remarks: ART msg grp 92 //2456 kHz Contr: (SW2)                   |
| 3415.0 | E10  | Mode: AM Date/time: 2-4-2008, 2234 UTC<br>Remarks: ART msg grp 18 [IZJZG] Contr: (SW2)                       |
| 3593.7 | MX   | Mode: CW Date/time: 29-4-2008, 2110 UTC<br>Remarks: Channel marker "P" Kaliningrad Contr: (AB)               |
| 3658   | MX   | Mode: CW Date/time: 16-4-2008, 2032 UTC<br>Remarks: Channel marker "V" Contr: (AB)                           |
| 3658   | MX   | Mode: CW Date/time: 19-4-2008, 2134 UTC<br>Remarks: Channel marker "V" Contr: (AB)                           |
| 3699.5 | MX   | Mode: CW Date/time: 16-4-2008, 2030 UTC<br>Remarks: Channel marker "P" + messages Contr: (AB)                |
| 3757   | S30  | Mode: CW Date/time: 16-4-2008, 1850 UTC<br>Remarks: Pip Contr: (AB)                                          |
| 3837   | MX   | Mode: CW Date/time: 16-4-2008, 1848 UTC<br>Remarks: Channel marker "P" Contr: (AB)                           |
| 3837   | MX   | Mode: CW Date/time: 16-4-2008, 2030 UTC<br>Remarks: Channel marker "P" + messages Contr: (AB)                |
| 3837   | MX   | Mode: CW Date/time: 19-4-2008, 2100 UTC<br>Remarks: Marker "P" + msg "RDL RDL RDL 35162 50210 35 Contr: (CK) |
| 3840   | E10  | Mode: AM Date/time: 25-4-2008, 1802 UTC<br>Remarks: YHF2 Contr: (SW2)                                        |
| 3840   | E10  | Mode: AM Date/time: 28-4-2008, 2204 UTC<br>Remarks: YHF msg GRP 39 //2844 Contr: (SW2)                       |
| 3840   | E10  | Mode: AM Date/time: 29-4-2008, 2204 UTC<br>Remarks: YHF msg grp 39 [TBTA0] Contr: (SW2)                      |
| 3840.0 | E10  | Mode: AM Date/time: 1-4-2008, 2204 UTC<br>Remarks: YHF: msg grp 35 [QUTDM] Contr: (SW2)                      |
| 3840.0 | E10  | Mode: AM Date/time: 2-4-2008, 2204 UTC<br>Remarks: YHF msg grp 35 [QUTDM] Contr: (SW2)                       |
| 3840.0 | E10  | Mode: USB Date/time: 4-4-2008, 0337 UTC<br>Remarks: YHF 2 msgs //3840 kHz Contr: (AVX)                       |
| 3926   | M08a | Mode: CW Date/time: 29-4-2008, 0400 UTC<br>Remarks: ID 40152 77652 87251 Contr: (Jon-FL)                     |
| 3926.0 | M08a | Mode: MCW Date/time: Tue 1-4-2008, 0400 UTC<br>Remarks: 5-fig cut numbers 28464 63030 78610 Contr: (Westli)  |
| 3927   | V02a | Mode: LSB Date/time: 8-4-2008, 0400 UTC<br>Remarks: A 75901 53508 28607 Contr: (Jon-FL)                      |

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| 4017   | M08a | Mode: MCW Date/time: 1-4-2008, 0300 UTC<br>Remarks: ID 63030 78610 28464 Contr: (Jon-FL)                                             |
| 4017   | M08a | Mode: MCW Date/time: 22-4-2008, 0302 UTC<br>Remarks: ID 60682 72891 87083 Contr: (Jon-FL)                                            |
| 4017   | V02a | Mode: AM Date/time: 8-4-2008, 0300 UTC<br>Remarks: A 75901 53508 28607 (weak M08a mixed)<br>Contr: (Jon-FL)                          |
| 4017   | V02a | Mode: AM Date/time: 15-4-2008, 0300 UTC<br>Remarks: A xxxxx xxxxx 61641 (many errors) Contr:<br>(Jon-FL)                             |
| 4017   | V02a | Mode: AM Date/time: 22-4-2008, 0300 UTC<br>Remarks: A 11201 46772 02731 (change to M08a at<br>0302z) Contr: (Jon-FL)                 |
| 4017   | V02a | Mode: AM Date/time: 29-4-2008, 0300 UTC<br>Remarks: A 70563 20652 57431 (weak M08a mixed)<br>Contr: (Jon-FL)                         |
| 4017.0 | M08a | Mode: MCW Date/time: Tue 22-4-2008, 0303 UTC<br>Remarks: 5-fig cut numbers 60680 ..239 87093 very<br>weak Contr: (Westli)            |
| 4017.0 | V02a | Mode: AM Date/time: Tue 29-4-2008, 0300 UTC<br>Remarks: SSYL 5-fig atencion 70562 20652 50431<br>Contr: (Westli)                     |
| 4019.0 | V02a | Mode: AM Date/time: Tue 22-4-2008, 0300 UTC<br>Remarks: SSYL 5-fig atencion 10201 42772 02731<br>M8a starts at 0303Z Contr: (Westli) |
| 4027   | M08a | Mode: CW Date/time: 8-4-2008, 0300 UTC<br>Remarks: ID xxxxx xxxxx 13840 (in progress, missed<br>callup) Contr: (Jon-FL)              |
| 4027   | M08a | Mode: CW Date/time: 29-4-2008, 0300 UTC<br>Remarks: ID 10371 60742 72381 Contr: (Jon-FL)                                             |
| 4027   | M24  | Mode: CW Date/time: 14-4-2008, 1940 UTC<br>Remarks: 728 164 00000 Contr: (RiN)                                                       |
| 4028   | M08a | Mode: MCW Date/time: 19-4-2008, 0300 UTC<br>Remarks: ID 11211 62441 45381 Contr: (Jon-FL)                                            |
| 4028   | V02a | Mode: AM Date/time: 4-4-2008, 0100 UTC<br>Remarks: A 23307 77343 17730 Contr: (Jon-FL)                                               |
| 4028   | V02a | Mode: AM Date/time: 5-4-2008, 0300 UTC<br>Remarks: A 11201 45801 21417 Contr: (Jon-FL)                                               |
| 4028   | V02a | Mode: AM Date/time: 11-4-2008, 0100 UTC<br>Remarks: A 56605 12472 87116 Contr: (Jon-FL)                                              |
| 4028   | V02a | Mode: AM Date/time: 11-4-2008, 0500 UTC<br>Remarks: A 47707 08873 07157 (early end, dropout)<br>Contr: (Jon-FL)                      |
| 4028   | V02a | Mode: AM Date/time: 12-4-2008, 0200 UTC<br>Remarks: A 70131 42081 52571 Contr: (Jon-FL)                                              |
| 4028   | V02a | Mode: AM Date/time: 12-4-2008, 0300 UTC<br>Remarks: A 73481 38772 50122 Contr: (Jon-FL)                                              |
| 4028   | V02a | Mode: AM Date/time: 18-4-2008, 0100 UTC                                                                                              |



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|        |      | Remarks: A xxxxx 02122 70602 (late start, no callup)<br>Contr: (Jon-FL)                                             |
| 4028   | V02a | Mode: AM Date/time: 18-4-2008, 0500 UTC<br>Remarks: A 28783 36031 26471 Contr: (Jon-FL)                             |
| 4028   | V02a | Mode: AM Date/time: 19-4-2008, 0200 UTC<br>Remarks: A 22681 36681 6045` Contr: (Jon-FL)                             |
| 4028   | V02a | Mode: LSB Date/time: 22-4-2008, 0300 UTC<br>Remarks: (fragment, no IDs) Contr: (Jon-FL)                             |
| 4028   | V02a | Mode: AM Date/time: 25-4-2008, 0100 UTC<br>Remarks: (carrier, no audio) Contr: (Jon-FL)                             |
| 4028   | V02a | Mode: AM Date/time: 26-4-2008, 0300 UTC<br>Remarks: A 52513 42633 70681 (early end) Contr:<br>(Jon-FL)              |
| 4028.0 | M08a | Mode: CW Date/time: Sat 12-4-2008, 0300 UTC<br>Remarks: (In progress, missed callups) Contr: (MS)                   |
| 4028.0 | V02a | Mode: AM Date/time: Fri 11-4-2008, 0500 UTC<br>Remarks: SSYL 5-fig atencion 47707 08873 07157<br>Contr: (Westli)    |
| 4028.0 | V02a | Mode: AM Date/time: Sat 12-4-2008, 0200 UTC<br>Remarks: SSYL 5-fig Contr: (Westli)                                  |
| 4028.0 | V02a | Mode: USB Date/time: Sat 12-4-2008, 0200 UTC<br>Remarks: A 70131 43081 52571 (YL/SS) Contr: (MS)                    |
| 4028.0 | V02a | Mode: AM Date/time: Sat 12-4-2008, 0300 UTC<br>Remarks: SSYL 5-fig Contr: (Westli)                                  |
| 4034   | M08a | Mode: CW Date/time: 1-4-2008, 1500 UTC<br>Remarks: (very weak) Contr: (Jon-FL)                                      |
| 4034   | M08a | Mode: CW Date/time: 7-4-2008, 1500 UTC<br>Remarks: (error) Contr: (Jon-FL)                                          |
| 4034   | M08a | Mode: CW Date/time: 10-4-2008, 1500 UTC<br>Remarks: ID 94041 15263 14071 Contr: (Jon-FL)                            |
| 4035   | V02a | Mode: AM Date/time: 7-4-2008, 0400 UTC<br>Remarks: (carrier, no audio) Contr: (Jon-FL)                              |
| 4035   | V02a | Mode: AM Date/time: 21-4-2008, 0400 UTC<br>Remarks: A 11201 46772 02731 (weak M08a mixed)<br>Contr: (Jon-FL)        |
| 4035   | V02a | Mode: AM Date/time: 26-4-2008, 1000 UTC<br>Remarks: A 46732 72061 87401 Contr: (Jon-FL)                             |
| 4035   | V02a | Mode: AM Date/time: 28-4-2008, 0400 UTC<br>Remarks: (carrier, no audio) Contr: (Jon-FL)                             |
| 4035.0 | V02a | Mode: AM Date/time: Mon 21-4-2008, 0400 UTC<br>Remarks: SSYL 5-fig caught late only cs hrd 46772<br>Contr: (Westli) |
| 4035.0 | V02a | Mode: USB Date/time: Mon 21-4-2008, 0400 UTC<br>Remarks: Spanish counting # in grp of 5 Contr: (ANPR)               |
| 4035.0 | V02a | Mode: USB Date/time: Sat 26-4-2008, 1000 UTC<br>Remarks: A 46732 72061 87401 (YL/SS) Contr: (MS)                    |
| 4073   | M18  | Mode: CW Date/time: 24-4-2008, 1843 UTC<br>Remarks: time string 0054 (UTC+6 hours 11 minutes)                       |

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|        |      | Contr: (PPA)                                                                                                        |
| 4141.0 | M01B | Mode: CW Date/time: 4-4-2008, 1820 UTC<br>Remarks: 210-527/23=47674, //4848 Contr: (HFD)                            |
| 4174   | V02a | Mode: AM Date/time: 7-4-2008, 0300 UTC<br>Remarks: A 32281 36582 48884 Contr: (Jon-FL)                              |
| 4174   | V02a | Mode: AM Date/time: 21-4-2008, 0300 UTC<br>Remarks: (short fragments) Contr: (Jon-FL)                               |
| 4174   | V02a | Mode: AM Date/time: 28-4-2008, 0300 UTC<br>Remarks: A 00253 28532 85381 Contr: (Jon-FL)                             |
| 4174.0 | V02a | Mode: USB Date/time: Mon 28-4-2008, 0300 UTC<br>Remarks: A 00253 28532 85381(YL/SS) Contr: (RCh)                    |
| 4270   | E10  | Mode: AM Date/time: 26-4-2008, 1900 UTC<br>Remarks: PCD2 Contr: (AVX)                                               |
| 4270   | E10  | Mode: AM Date/time: 26-4-2008, 1930 UTC<br>Remarks: PCD msg 17 gr Contr: (AVX)                                      |
| 4270   | E10  | Mode: AM Date/time: 28-4-2008, 2202 UTC<br>Remarks: PCD2 Contr: (SW2)                                               |
| 4270   | E10  | Mode: AM Date/time: 28-4-2008, 2233 UTC<br>Remarks: PCD2 Contr: (SW2)                                               |
| 4270   | E10  | Mode: AM Date/time: 29-4-2008, 1904 UTC<br>Remarks: PCD msg grp 15 Contr: (SW2)                                     |
| 4270   | E10  | Mode: AM Date/time: 29-4-2008, 2203 UTC<br>Remarks: PCD2 Contr: (SW2)                                               |
| 4270.0 | E10  | Mode: AM Date/time: 1-4-2008, 2107 UTC<br>Remarks: PCD: msg grp 19 [SCMDN] Contr: (SW2)                             |
| 4325.9 | MX   | Mode: CW Date/time: 16-4-2008, 1847 UTC<br>Remarks: Channel marker "R" Contr: (AB)                                  |
| 4329   | V02a | Mode: AM Date/time: 2-4-2008, 0400 UTC<br>Remarks: A 37237 52817 26663 Contr: (Jon-FL)                              |
| 4329   | V02a | Mode: AM Date/time: 9-4-2008, 0400 UTC<br>Remarks: A 70522 09661 16613 Contr: (Jon-FL)                              |
| 4329   | V02a | Mode: AM Date/time: 23-4-2008, 0400 UTC<br>Remarks: A 31052 21111 50251 Contr: (Jon-FL)                             |
| 4329   | V02a | Mode: AM Date/time: 30-4-2008, 0400 UTC<br>Remarks: A 13122 07881 52511 Contr: (Jon-FL)                             |
| 4329.0 | M08a | Mode: CW Date/time: Wed 16-4-2008, 0400 UTC<br>Remarks: 5-fig cut numbers too weak to copy Contr: (Westli)          |
| 4329.0 | V02a | Mode: AM Date/time: Wed 9-4-2008, 0400 UTC<br>Remarks: SSSL 5-fig QRM unreadable Contr: (Westli)                    |
| 4329.0 | V02a | Mode: USB Date/time: Wed 23-4-2008, 0400 UTC<br>Remarks: ID: A 31052 21111 50251 YL Spanish - weak<br>Contr: (ANPR) |
| 4329.0 | V02a | Mode: AM Date/time: Wed 23-4-2008, 0400 UTC<br>Remarks: SSSL 5-fig atencion 31152 21111 50251<br>Contr: (Westli)    |
| 4329.0 | V02a | Mode: AM Date/time: Wed 30-4-2008, 0400 UTC<br>Remarks: SSSL 5-fig atencion 13122 07581 52511                       |

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|        |      | Contr: (Westli)                                                                                                              |
| 4454   | M01b | Mode: CW Date/time: 14-4-2008, 1915 UTC<br>Remarks: "771" 921 32 - 30194 etc Contr: (RiN)                                    |
| 4457   | M01b | Mode: CW Date/time: Mon 21-4-2008, 1925 UTC<br>Remarks: i.p., ends 1927z: ...10800 10800 == 921 921<br>32 32 000 Contr: (FN) |
| 4458   | S06  | Mode: AM Date/time: 14-4-2008, 1905 UTC<br>Remarks: "326" 00000 Contr: (RiN)                                                 |
| 4461   | E10  | Mode: AM Date/time: 29-4-2008, 1801 UTC<br>Remarks: FTJ2 Contr: (SW2)                                                        |
| 4461   | E10  | Mode: AM Date/time: 29-4-2008, 2304 UTC<br>Remarks: FTJ msg grp 53 Contr: (SW2)                                              |
| 4473.0 | V02a | Mode: AM Date/time: Wed 23-4-2008, 0300 UTC<br>Remarks: SSSL 5-fig atencion 31152 21111 50251<br>Contr: (Westli)             |
| 4473.0 | V02a | Mode: AM Date/time: Wed 30-4-2008, 0300 UTC<br>Remarks: SSSL 5-fig atencion 13122 07581 52511<br>Contr: (Westli)             |
| 4478   | M08a | Mode: CW Date/time: 26-4-2008, 1100 UTC<br>Remarks: ID xxxxx 18712 65021 (RX error) Contr: (Jon-FL)                          |
| 4478.0 | M08a | Mode: CW Date/time: Sat 5-4-2008, 1100 UTC<br>Remarks: ID 66056 13102 68037 Contr: (MS)                                      |
| 4478.0 | M08a | Mode: CW Date/time: Sat 26-4-2008, 1100 UTC<br>Remarks: (Too weak for reliable copy.) Contr: (MS)                            |
| 4478.0 | V02a | Mode: AM Date/time: Sat 12-4-2008, 1100 UTC<br>Remarks: (Garbled audio, uncopiable. YL/SS) Contr: (MS)                       |
| 4479   | V02a | Mode: AM Date/time: 2-4-2008, 0300 UTC<br>Remarks: A 37237 52817 26663 Contr: (Jon-FL)                                       |
| 4479   | V02a | Mode: AM Date/time: 4-4-2008, 0400 UTC<br>Remarks: A 21111 56525 87112 Contr: (Jon-FL)                                       |
| 4479   | V02a | Mode: AM Date/time: 9-4-2008, 0300 UTC<br>Remarks: A 70522 09661 16613 Contr: (Jon-FL)                                       |
| 4479   | V02a | Mode: AM Date/time: 11-4-2008, 0400 UTC<br>Remarks: A 47707 08873 07157 Contr: (Jon-FL)                                      |
| 4479   | V02a | Mode: AM Date/time: 16-4-2008, 0300 UTC<br>Remarks: A 36711 91301 67422 Contr: (Jon-FL)                                      |
| 4479   | V02a | Mode: AM Date/time: 18-4-2008, 0400 UTC<br>Remarks: A 28783 36031 26471 (heavy feedback)<br>Contr: (Jon-FL)                  |
| 4479   | V02a | Mode: AM Date/time: 23-4-2008, 0300 UTC<br>Remarks: A 31052 21111 50251 Contr: (Jon-FL)                                      |
| 4479   | V02a | Mode: AM Date/time: 25-4-2008, 0400 UTC<br>Remarks: A 05123 17761 44241 (ealy end) Contr:<br>(Jon-FL)                        |
| 4479   | V02a | Mode: AM Date/time: 30-4-2008, 0300 UTC<br>Remarks: A 13122 07881 52511 Contr: (Jon-FL)                                      |
| 4479.0 | V02a | Mode: AM Date/time: Wed 2-4-2008, 0300 UTC<br>Remarks: SSSL 5-fig no calls noted Contr: (Westli)                             |

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| 4479.0 | V02a | Mode: AM Date/time: Wed 9-4-2008, 0300 UTC<br>Remarks: SSYL 5-fig atencion 50533 09661 16613<br>Contr: (Westli)  |
| 4479.0 | V02a | Mode: AM Date/time: Fri 11-4-2008, 0400 UTC<br>Remarks: SSYL 5-fig atencion 47707 08873 07157<br>Contr: (Westli) |
| 4479.0 | V02a | Mode: AM Date/time: Wed 16-4-2008, 0300 UTC<br>Remarks: SSYL 5-fig too weak to copy Contr: (Westli)              |
| 4506   | M08a | Mode: CW Date/time: 2-4-2008, 1600 UTC<br>Remarks: Contr: (Jon-FL)                                               |
| 4506   | M08a | Mode: CW Date/time: 9-4-2008, 1700 UTC<br>Remarks: ID 60068 71828 38222 (early end) Contr: (Jon-FL)              |
| 4506   | M08a | Mode: CW Date/time: 10-4-2008, 1600 UTC<br>Remarks: ID 94041 15263 14071 Contr: (Jon-FL)                         |
| 4507   | M08a | Mode: CW Date/time: 12-4-2008, 1100 UTC<br>Remarks: ID 10173 27702 73732 Contr: (Jon-FL)                         |
| 4507   | V02a | Mode: AM Date/time: 26-4-2008, 1100 UTC<br>Remarks: A xxxxx 72061 87401 (RX error) Contr: (Jon-FL)               |
| 4507.0 | M08a | Mode: CW Date/time: Sat 12-4-2008, 1104 UTC<br>Remarks: (QRM blocking, uncopyable.) Contr: (MS)                  |
| 4507.0 | V02a | Mode: USB Date/time: Sat 26-4-2008, 1100 UTC<br>Remarks: A 46732 72061 87401 (YL/SS) Contr: (MS)                 |
| 4557.7 | MX   | Mode: CW Date/time: 16-4-2008, 2029 UTC<br>Remarks: Cluster beacon "D" Contr: (AB)                               |
| 4557.7 | MX   | Mode: CW Date/time: 18-4-2008, 2048 UTC<br>Remarks: Cluster beacon "D" Contr: (AB)                               |
| 4557.9 | MX   | Mode: CW Date/time: 18-4-2008, 2048 UTC<br>Remarks: Cluster beacon "S" Contr: (AB)                               |
| 4558   | MX   | Mode: CW Date/time: 16-4-2008, 2029 UTC<br>Remarks: Cluster beacon "C" Contr: (AB)                               |
| 4558.0 | MX   | Mode: CW Date/time: 18-4-2008, 2048 UTC<br>Remarks: Cluster beacon "C" Contr: (AB)                               |
| 4560   | E10  | Mode: AM Date/time: 27-4-2008, 2104 UTC<br>Remarks: YHF1 Contr: (SW2)                                            |
| 4560   | E10  | Mode: AM Date/time: 29-4-2008, 2059 UTC<br>Remarks: YHF1 Contr: (SW2)                                            |
| 4579.5 | M51  | Mode: CW Date/time: 17-4-2008, 2040 UTC<br>Remarks: = NR 70 A 17 22:49:09 1980 = Contr: (SM)                     |
| 4602.0 | M01b | Mode: CW Date/time: Tue 22-4-2008, 1902 UTC<br>Remarks: i.p. Contr: (FMB)                                        |
| 4605   | M01b | Mode: CW Date/time: Thu 10-4-2008, 1837 UTC<br>Remarks: i.p., ends 921 921 32 32 000 Contr: (FN)                 |
| 4610.0 | E06  | Mode: AM Date/time: Wed 9-4-2008, 1825 UTC<br>Remarks: 1234(x3) 12 Contr: (FMB)                                  |
| 4610.0 | E06  | Mode: AM Date/time: Wed 9-4-2008, 1825 UTC<br>Remarks: 1234(x2) 12 Contr: (FMB)                                  |
| 4610.0 | E06  | Mode: AM Date/time: Wed 9-4-2008, 1919 UTC<br>Remarks: 931(x3) 00000 Contr: (FMB)                                |

|         |      |                                                                                                                      |
|---------|------|----------------------------------------------------------------------------------------------------------------------|
| 4610.0  | E06  | Mode: AM Date/time: Wed 9-4-2008, 1919 UTC<br>Remarks: 931(x3) 00000 Contr: (FMB)                                    |
| 4625    | S28  | Mode: AM Date/time: 16-4-2008, 1849 UTC<br>Remarks: Buzzer Contr: (AB)                                               |
| 4625    | S28  | Mode: CW Date/time: 17-4-2008, 2200 UTC<br>Remarks: Buzzer Contr: (SM)                                               |
| 4766.0  | M01B | Mode: CW Date/time: 4-4-2008, 2102 UTC<br>Remarks: 271, //5442 Contr: (HFD)                                          |
| 4848.0  | M01B | Mode: CW Date/time: 4-4-2008, 1820 UTC<br>Remarks: 210-527/23=47674, //4141 Contr: (HFD)                             |
| 4880    | E10  | Mode: AM Date/time: 25-4-2008, 1803 UTC<br>Remarks: ULX2 Contr: (SW2)                                                |
| 4880    | E10  | Mode: AM Date/time: 29-4-2008, 1804 UTC<br>Remarks: ULX msg grp 115 [TKDXL] Contr: (SW2)                             |
| 4880.0  | E10  | Mode: AM Date/time: 1-4-2008, 1837 UTC<br>Remarks: ULX: msg grp 21 [DBBUA] Contr: (SW2)                              |
| 4880.0  | E10  | Mode: AM Date/time: 1-4-2008, 2139 UTC<br>Remarks: ULX: msg grp 43 [HFUCF] Contr: (SW2)                              |
| 4880.0  | E10  | Mode: USB Date/time: 4-4-2008, 0219 UTC<br>Remarks: 2 msgs group 73 and group 46 Contr: (AVX)                        |
| 4880.0  | E10  | Mode: AM Date/time: Sat 5-4-2008, 1730 UTC<br>Remarks: Contr: (DL3ZY)                                                |
| 4880.0  | E10  | Mode: AM Date/time: Sat 5-4-2008, 1730 UTC<br>Remarks: Contr: (D06WT)                                                |
| 4880.0  | E10  | Mode: AM Date/time: Sat 5-4-2008, 1830 UTC<br>Remarks: Contr: (DL3ZY)                                                |
| 4880.0  | E10  | Mode: AM Date/time: Sat 5-4-2008, 1830 UTC<br>Remarks: Contr: (D06WT)                                                |
| 4905.0  | M01B | Mode: CW Date/time: 3-4-2008, 2032 UTC<br>Remarks: 302-921/32=30194, //5735 Contr: (HFD)                             |
| 4911.05 | M51  | Mode: CW Date/time: 1-4-2008, 0049 UTC<br>Remarks: French mil, CW training Contr: (Jon-FL)                           |
| 4992.0  | M01B | Mode: CW Date/time: 7-4-2008, 2010 UTC<br>Remarks: 298-921/#2=30194, //5336 Contr: (HFD)                             |
| 4993    | M01b | Mode: CW Date/time: 14-4-2008, 2010 UTC<br>Remarks: "298" 921 32 - 30194 etc Contr: (RiN)                            |
| 5116    | M08a | Mode: CW Date/time: 1-4-2008, 1300 UTC<br>Remarks: ID 74981 35835 84420 Contr: (Jon-FL)                              |
| 5116    | M08a | Mode: CW Date/time: 8-4-2008, 1300 UTC<br>Remarks: ID 14371 45851 81528 (late start, partial callup) Contr: (Jon-FL) |
| 5116    | M08a | Mode: CW Date/time: 15-4-2008, 1300 UTC<br>Remarks: (keying problems) Contr: (Jon-FL)                                |
| 5116    | M08a | Mode: CW Date/time: 22-4-2008, 1300 UTC<br>Remarks: ID 22463 11741 08823 Contr: (Jon-FL)                             |
| 5116    | M08a | Mode: CW Date/time: 29-4-2008, 1300 UTC<br>Remarks: ID 52121 74182 88773 (uno) Contr: (Jon-FL)                       |
| 5117    | V02a | Mode: AM Date/time: 14-4-2008, 0400 UTC                                                                              |

|         |      |                                                                                                                     |
|---------|------|---------------------------------------------------------------------------------------------------------------------|
|         |      | Remarks: A 95051 46071 37222 (weak M08a mixed)<br>Contr: (Jon-FL)                                                   |
| 5125.0  | E06  | Mode: AM Date/time: 16-4-2008, 2015 UTC<br>Remarks: 842:0 Contr: (HFD)                                              |
| 5133.85 | M51  | Mode: CW Date/time: 2-4-2008, 0321 UTC<br>Remarks: = NR 55 A 02 06:18:08 1980 = Contr: (Jon-FL)                     |
| 5134    | M08a | Mode: CW Date/time: 1-4-2008, 1400 UTC<br>Remarks: ID 74981 35835 84420 Contr: (Jon-FL)                             |
| 5134    | M08a | Mode: CW Date/time: 3-4-2008, 1300 UTC<br>Remarks: ID 82076 46022 14045 Contr: (Jon-FL)                             |
| 5134    | M08a | Mode: CW Date/time: 4-4-2008, 1300 UTC<br>Remarks: ID 82351 53500 68164 Contr: (Jon-FL)                             |
| 5134    | M08a | Mode: CW Date/time: 8-4-2008, 1400 UTC<br>Remarks: ID 14371 45851 81528 Contr: (Jon-FL)                             |
| 5134    | M08a | Mode: CW Date/time: 11-4-2008, 1300 UTC<br>Remarks: ID 23403 22181 71863 Contr: (Jon-FL)                            |
| 5134    | M08a | Mode: CW Date/time: 15-4-2008, 1400 UTC<br>Remarks: (keying problems) Contr: (Jon-FL)                               |
| 5134    | M08a | Mode: CW Date/time: 17-4-2008, 1300 UTC<br>Remarks: ID 64752 26273 41883 Contr: (Jon-FL)                            |
| 5134    | M08a | Mode: CW Date/time: 18-4-2008, 1300 UTC<br>Remarks: ID 74981 80373 17742 Contr: (Jon-FL)                            |
| 5134    | M08a | Mode: CW Date/time: 22-4-2008, 1400 UTC<br>Remarks: ID 22463 11741 08823 Contr: (Jon-FL)                            |
| 5134    | M08a | Mode: CW Date/time: 24-4-2008, 1300 UTC<br>Remarks: ID xxxxx 15783 23011 (late start, no callup)<br>Contr: (Jon-FL) |
| 5134    | M08a | Mode: CW Date/time: 25-4-2008, 1300 UTC<br>Remarks: ID 20411 66212 38232 Contr: (Jon-FL)                            |
| 5134    | M08a | Mode: CW Date/time: 29-4-2008, 1400 UTC<br>Remarks: ID 52121 74182 88773 Contr: (Jon-FL)                            |
| 5135    | V02a | Mode: AM Date/time: 5-4-2008, 0100 UTC<br>Remarks: A 36068 00821 63041 (early end) Contr: (Jon-FL)                  |
| 5135    | V02a | Mode: AM Date/time: 12-4-2008, 0100 UTC<br>Remarks: A 70131 42081 52571 Contr: (Jon-FL)                             |
| 5135    | V02a | Mode: AM Date/time: 19-4-2008, 0100 UTC<br>Remarks: A 22681 36681 60451 (2nd harmoic 10270)<br>Contr: (Jon-FL)      |
| 5135.0  | V02a | Mode: USB Date/time: Sat 5-4-2008, 0100 UTC<br>Remarks: (Strong xmtr hum and echoes makes uncopyable. Contr: (MS)   |
| 5135.0  | V02a | Mode: USB Date/time: Sat 12-4-2008, 0100 UTC<br>Remarks: A 70131 43081 52571 (YL/SS) Contr: (MS)                    |
| 5135.0  | V02a | Mode: AM Date/time: Sat 12-4-2008, 0100 UTC<br>Remarks: SSSL 5-fig Contr: (Westli)                                  |
| 5135.0  | V02a | Mode: USB Date/time: Sat 19-4-2008, 0100 UTC                                                                        |

Remarks: A ----- 26681 ----- (YL/SS. In to the sked late.  
Contr: (MS)

5149.0 M51 Mode: CW Date/time: 14-4-2008, 2140 UTC  
Remarks: = NR 48 A 14 23:43:37 1980 = Contr: (BCI)

5153.7 MX Mode: CW Date/time: 16-4-2008, 1838 UTC  
Remarks: Cluster beacon "D" Contr: (AB)

5153.7 MX Mode: CW Date/time: 17-4-2008, 1732 UTC  
Remarks: Cluster beacon "D" Contr: (AB)

5153.9 MX Mode: CW Date/time: 17-4-2008, 1732 UTC  
Remarks: Cluster beacon "S" Contr: (AB)

5154 MX Mode: CW Date/time: 16-4-2008, 1838 UTC  
Remarks: Cluster beacon "C" Contr: (AB)

5154.0 M51 Mode: CW Date/time: 8-4-2008, 0617 UTC  
Remarks: ip Contr: (BCI)

5154.0 MX Mode: CW Date/time: 17-4-2008, 1732 UTC  
Remarks: Cluster beacon "C" Contr: (AB)

5170 E10 Mode: AM Date/time: 25-4-2008, 1804 UTC  
Remarks: PCD msg grp 104 [DDCMJ] //4270 kHz Contr:  
(SW2)

5170 E10 Mode: AM Date/time: 27-4-2008, 1811 UTC  
Remarks: PCD rpt msg grp 51 [HGFWS] Contr: (SW2)

5170 E10 Mode: AM Date/time: 29-4-2008, 1804 UTC  
Remarks: PCD msg grp 54 //4270 Contr: (SW2)

5170.0 E10 Mode: AM Date/time: 1-4-2008, 1804 UTC  
Remarks: PCD: msg grp 47 [WXALN] //4270 khz Contr:  
(SW2)

5186 E06 Mode: AM Date/time: 3-4-2008, 1930 UTC  
Remarks: Sending 1234 and 123 Contr: (MUK)

5186 E06 Mode: AM Date/time: 3-4-2008, 2030 UTC  
Remarks: 891 682 22 Contr: (MUK)

5193.5 M51 Mode: CW Date/time: 2-4-2008, 1439 UTC  
Remarks: = nr 58 a 02 16:39:11 1980 = tqcqb dgfip ylv  
Contr: (SW2)

5193.5 M51 Mode: CW Date/time: 2-4-2008, 1445 UTC  
Remarks: = nr 59 a 02 16:45:27 1980 = zhggg afjds  
uka Contr: (SW2)

5193.5 M51 Mode: CW Date/time: 2-4-2008, 1451 UTC  
Remarks: = nr 60 a 02 16:51:38 1980 = kjznq ppyua  
ngs Contr: (SW2)

5193.5 M51 Mode: CW Date/time: 2-4-2008, 1457 UTC  
Remarks: = nr 61 a 02 16:57:54 1980 = uscza vwgrt  
gwu Contr: (SW2)

5193.5 M51 Mode: CW Date/time: 2-4-2008, 1504 UTC  
Remarks: = nr 62 a 02 17:04:07 1980 = ..skr fashe qjz  
Contr: (SW2)

5193.5 M51 Mode: CW Date/time: 2-4-2008, 1510 UTC  
Remarks: = nr 63 a 02 17:10:20 1980 = jovcr tghob ixl  
Contr: (SW2)

|        |      |                                                                                                                                  |
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| 5194.0 | M51  | Mode: CW Date/time: 3-4-2008, 0600 UTC<br>Remarks: "NR 28 A 03 17:15:19 1980 BT WQYUE....."<br>Contr: (BCI)                      |
| 5195.0 | S06  | Mode: AM Date/time: Wed 2-4-2008, 1800 UTC<br>Remarks: 269(x3) 00000 Contr: (FMB)                                                |
| 5195.0 | S06  | Mode: AM Date/time: Wed 2-4-2008, 1806 UTC<br>Remarks: 269(x3) 00000 Contr: (FMB)                                                |
| 5230.0 | E10  | Mode: AM Date/time: 3-4-2008, 0604 UTC<br>Remarks: MIW Contr: (BCI)                                                              |
| 5231   | M51  | Mode: CW Date/time: 25-4-2008, 0525 UTC<br>Remarks: //5248 kHz Contr: (BCI)                                                      |
| 5248   | M51  | Mode: CW Date/time: 25-4-2008, 0525 UTC<br>Remarks: //5321 kHz = NR 54 A 25 17:33:03 1980 =<br>CEUF Contr: (BCI)                 |
| 5321   | M51  | Mode: CW Date/time: 25-4-2008, 0525 UTC<br>Remarks: //5248 kHz = NR 53 A 25 17:26:49 1980 =<br>UYVD Contr: (BCI)                 |
| 5336   | M01b | Mode: CW Date/time: 14-4-2008, 2010 UTC<br>Remarks: "298" 921 32 - 30194 etc Contr: (RiN)                                        |
| 5336.0 | M01B | Mode: CW Date/time: 7-4-2008, 2010 UTC<br>Remarks: 298-921/#2=30194, //4992 Contr: (HFD)                                         |
| 5339.0 | E10  | Mode: AM Date/time: 1-4-2008, 1604 UTC<br>Remarks: FTJ: msg grp 100 [TYBIH] Contr: (SW2)                                         |
| 5416   | M08a | Mode: CW Date/time: 4-4-2008, 1400 UTC<br>Remarks: ID 82351 53500 68164 Contr: (Jon-FL)                                          |
| 5416   | M08a | Mode: CW Date/time: 11-4-2008, 1400 UTC<br>Remarks: ID 23403 22181 71863 Contr: (Jon-FL)                                         |
| 5416   | M08a | Mode: CW Date/time: 18-4-2008, 1400 UTC<br>Remarks: ID 74981 80373 17742 Contr: (Jon-FL)                                         |
| 5416   | M08a | Mode: CW Date/time: 25-4-2008, 1400 UTC<br>Remarks: ID 20411 66212 38232 Contr: (Jon-FL)                                         |
| 5417   | V02a | Mode: AM Date/time: 4-4-2008, 0200 UTC<br>Remarks: A 23307 77343 17730 Contr: (Jon-FL)                                           |
| 5417   | V02a | Mode: AM Date/time: 11-4-2008, 0200 UTC<br>Remarks: (very weak) Contr: (Jon-FL)                                                  |
| 5417   | V02a | Mode: AM Date/time: 18-4-2008, 0200 UTC<br>Remarks: A 81271 02122 70602 Contr: (Jon-FL)                                          |
| 5417   | V02a | Mode: AM Date/time: 25-4-2008, 0200 UTC<br>Remarks: A xxxxx 26053 xxxxx (late start, no callup,<br>fade) Contr: (Jon-FL)         |
| 5417.0 | V02a | Mode: AM Date/time: Fri 4-4-2008, 0200 UTC<br>Remarks: SSSL 5-fig atencion 23307 48343 17520<br>ugly readability Contr: (Westli) |
| 5435   | E10  | Mode: AM Date/time: 27-4-2008, 1604 UTC<br>Remarks: ART msg grp 15 Contr: (SW2)                                                  |
| 5435   | E10  | Mode: AM Date/time: 29-4-2008, 1733 UTC<br>Remarks: ART2 Contr: (SW2)                                                            |
| 5435   | E10  | Mode: AM Date/time: 29-4-2008, 1804 UTC                                                                                          |



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| 5435   | E10  | Remarks: ART msg grp 195 [UMHIZ] Contr: (SW2)<br>Mode: AM Date/time: 29-4-2008, 2202 UTC<br>Remarks: ART2 Contr: (SW2)    |
| 5442.0 | M01B | Mode: CW Date/time: 4-4-2008, 2102 UTC<br>Remarks: 271, //4766 Contr: (HFD)                                               |
| 5442.5 | M51  | Mode: CW Date/time: 21-4-2008, 0545 UTC<br>Remarks: = NR 04 A 21 06:48:55 1980 = VEMTD<br>IJFDQ Contr: (BCI)              |
| 5454.5 | M51  | Mode: CW Date/time: 8-4-2008, 0640 UTC<br>Remarks: ip Contr: (BCI)                                                        |
| 5454.5 | M51  | Mode: CW Date/time: 26-4-2008, 0447 UTC<br>Remarks: French mil. CW training Contr: (Jon-FL)                               |
| 5465.9 | MX   | Mode: CW Date/time: 16-4-2008, 1847 UTC<br>Remarks: Channel marker "R" Contr: (AB)                                        |
| 5735.0 | M01B | Mode: CW Date/time: 3-4-2008, 2032 UTC<br>Remarks: 302-921/32=30194, //4905 Contr: (HFD)                                  |
| 5758.0 | XPA  | Mode: AM Date/time: 1-4-2008, 2040 UTC<br>Remarks: msg Contr: (HFD)                                                       |
| 5758.0 | XPA  | Mode: AM Date/time: 4-4-2008, 2020 UTC<br>Remarks: msg Contr: (HFD)                                                       |
| 5758.0 | XPA  | Mode: AM Date/time: 4-4-2008, 2040 UTC<br>Remarks: msg Contr: (HFD)                                                       |
| 5760.0 | M08a | Mode: CW Date/time: Wed 9-4-2008, 1300 UTC<br>Remarks: 5-fig cut numbers weak Contr: (Westli)                             |
| 5760.0 | M08a | Mode: CW Date/time: Wed 23-4-2008, 1300 UTC<br>Remarks: 5-fig cut numbers too weak to copy Contr: (Westli)                |
| 5761   | M08a | Mode: CW Date/time: 30-4-2008, 1300 UTC<br>Remarks: ID xxxxx 81602 37801 (late start, no callup)<br>Contr: (Jon-FL)       |
| 5761.0 | M08a | Mode: MCW Date/time: Wed 2-4-2008, 1300 UTC<br>Remarks: 5-fig cut numbers weak possibly 82173 83864 16713 Contr: (Westli) |
| 5762   | V02a | Mode: AM Date/time: 26-4-2008, 0200 UTC<br>Remarks: A 71471 76202 28583 Contr: (Jon-FL)                                   |
| 5762.0 | V02a | Mode: USB Date/time: Sat 5-4-2008, 0200 UTC<br>Remarks: A 36068 00821 63041 (YL/SS) Contr: (MS)                           |
| 5762.0 | V02a | Mode: AM Date/time: Sat 5-4-2008, 0500 UTC<br>Remarks: SSYL 5-fig atencion 26065 00.26 620..<br>heavy QRM Contr: (Westli) |
| 5771   | M08a | Mode: MCW Date/time: 5-4-2008, 1500 UTC<br>Remarks: ID 86735 11424 40643 (should be V02a)<br>Contr: (Jon-FL)              |
| 5771   | M08a | Mode: MCW Date/time: 20-4-2008, 1500 UTC<br>Remarks: ID 47123 24231 66181 Contr: (Jon-FL)                                 |
| 5771   | M08a | Mode: MCW Date/time: 22-4-2008, 1500 UTC<br>Remarks: ID 43171 67563 38832 (and V02a) Contr: (Jon-FL)                      |

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| 5771 | M08a | Mode: CW Date/time: 28-4-2008, 1500 UTC<br>Remarks: ID 23741 25031 02213 (dropout) Contr:<br>(Jon-FL)                        |
| 5771 | SK01 | Mode: RDFT Date/time: 1-4-2008, 1536 UTC<br>Remarks: Contr: (Jon-FL)                                                         |
| 5771 | V02a | Mode: AM Date/time: 1-4-2008, 1500 UTC<br>Remarks: A 51516 85554 46877 (uno, then (Jon-FL)<br>RDFT at 1536z) Contr: (Jon-FL) |
| 5771 | V02a | Mode: AM Date/time: 3-4-2008, 1500 UTC<br>Remarks: A 38621 64111 37861 Contr: (Jon-FL)                                       |
| 5771 | V02a | Mode: AM Date/time: 4-4-2008, 1500 UTC<br>Remarks: A 43783 57762 34711 Contr: (Jon-FL)                                       |
| 5771 | V02a | Mode: AM Date/time: 6-4-2008, 1500 UTC<br>Remarks: A 75661 74525 50474 Contr: (Jon-FL)                                       |
| 5771 | V02a | Mode: AM Date/time: 7-4-2008, 1500 UTC<br>Remarks: (error) Contr: (Jon-FL)                                                   |
| 5771 | V02a | Mode: AM Date/time: 8-4-2008, 1500 UTC<br>Remarks: A 40412 20412 44641 Contr: (Jon-FL)                                       |
| 5771 | V02a | Mode: AM Date/time: 10-4-2008, 1500 UTC<br>Remarks: A 74365 26313 37616 (weak M08a mixed)<br>Contr: (Jon-FL)                 |
| 5771 | V02a | Mode: AM Date/time: 11-4-2008, 1500 UTC<br>Remarks: A 85342 58751 32213 Contr: (Jon-FL)                                      |
| 5771 | V02a | Mode: AM Date/time: 12-4-2008, 1500 UTC<br>Remarks: A 71031 33402 73083 Contr: (Jon-FL)                                      |
| 5771 | V02a | Mode: AM Date/time: 13-4-2008, 1500 UTC<br>Remarks: A 64173 62821 53262 (weak M08a mixed)<br>Contr: (Jon-FL)                 |
| 5771 | V02a | Mode: AM Date/time: 14-4-2008, 1500 UTC<br>Remarks: A 02223 82811 71511 Contr: (Jon-FL)                                      |
| 5771 | V02a | Mode: AM Date/time: 15-4-2008, 1500 UTC<br>Remarks: (carrier, no audio) Contr: (Jon-FL)                                      |
| 5771 | V02a | Mode: AM Date/time: 17-4-2008, 1500 UTC<br>Remarks: A 66673 23821 77111 Contr: (Jon-FL)                                      |
| 5771 | V02a | Mode: AM Date/time: 18-4-2008, 1500 UTC<br>Remarks: A 73172 53661 57213 Contr: (Jon-FL)                                      |
| 5771 | V02a | Mode: AM Date/time: 21-4-2008, 1500 UTC<br>Remarks: 07083 64111 05553 Contr: (Jon-FL)                                        |
| 5771 | V02a | Mode: AM Date/time: 22-4-2008, 1500 UTC<br>Remarks: A 45073 61103 10853 (and M08a) Contr:<br>(Jon-FL)                        |
| 5771 | V02a | Mode: AM Date/time: 24-4-2008, 1500 UTC<br>Remarks: A 37801 47403 05501 Contr: (Jon-FL)                                      |
| 5771 | V02a | Mode: AM Date/time: 25-4-2008, 1500 UTC<br>Remarks: A 10602 75661 71142 Contr: (Jon-FL)                                      |
| 5771 | V02a | Mode: AM Date/time: 26-4-2008, 1500 UTC<br>Remarks: A 56733 45273 10181 (dropout) Contr: (Jon-<br>FL)                        |

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| 5771   | V02a | Mode: AM Date/time: 27-4-2008, 1500 UTC<br>Remarks: (small fragment) Contr: (Jon-FL)                                      |
| 5771   | V02a | Mode: AM Date/time: 29-4-2008, 1500 UTC<br>Remarks: A 25811 80221 48542 Contr: (Jon-FL)                                   |
| 5771.5 | M51  | Mode: CW Date/time: 25-4-2008, 1923 UTC<br>Remarks: = NR 70 a 22 2?:23:3? 1980 = WUXLF<br>ZVVTW ... Contr: (MPJ)          |
| 5799   | M08a | Mode: CW Date/time: 3-4-2008, 1400 UTC<br>Remarks: ID 82076 46022 14045 (12345 67890 then<br>M08a) Contr: (Jon-FL)        |
| 5799   | M08a | Mode: CW Date/time: 10-4-2008, 1400 UTC<br>Remarks: ID xxxxx xxxxx 56465 (in progress, missed<br>callup)) Contr: (Jon-FL) |
| 5799   | M08a | Mode: CW Date/time: 17-4-2008, 1400 UTC<br>Remarks: ID 64752 26273 41883 Contr: (Jon-FL)                                  |
| 5799   | M08a | Mode: CW Date/time: 24-4-2008, 1400 UTC<br>Remarks: ID 21252 15783 23011 Contr: (Jon-FL)                                  |
| 5799.0 | M08a | Mode: CW Date/time: 15-4-2008, 0632 UTC<br>Remarks: + + + GDIID GDIID GDIID GDIID GDIID = = =<br>Contr: (BCI)             |
| 5800   | M08a | Mode: MCW Date/time: 1-4-2008, 0600 UTC<br>Remarks: ID 51516 85554 46877 Contr: (Jon-FL)                                  |
| 5800   | M08a | Mode: MCW Date/time: 3-4-2008, 0600 UTC<br>Remarks: ID 48803 83303 68168 Contr: (Jon-FL)                                  |
| 5800   | M08a | Mode: MCW Date/time: 5-4-2008, 0600 UTC<br>Remarks: ID 68742 48551 15761 Contr: (Jon-FL)                                  |
| 5800   | M08a | Mode: MCW Date/time: 7-4-2008, 0600 UTC<br>Remarks: ID 38457 48654 07542 Contr: (Jon-FL)                                  |
| 5800   | M08a | Mode: MCW Date/time: 8-4-2008, 0600 UTC<br>Remarks: ID 23516 30111 67230 Contr: (Jon-FL)                                  |
| 5800   | M08a | Mode: MCW Date/time: 10-4-2008, 0600 UTC<br>Remarks: ID 25270 35503 80530 (12345 67890, then<br>M08a) Contr: (Jon-FL)     |
| 5800   | M08a | Mode: MCW Date/time: 12-4-2008, 0600 UTC<br>Remarks: ID 05281 97757 56482 Contr: (Jon-FL)                                 |
| 5800   | M08a | Mode: MCW Date/time: 14-4-2008, 0600 UTC<br>Remarks: ID 72551 26212 43782 Contr: (Jon-FL)                                 |
| 5800   | M08a | Mode: MCW Date/time: 15-4-2008, 0600 UTC<br>Remarks: ID 73182 52411 61112 Contr: (Jon-FL)                                 |
| 5800   | M08a | Mode: MCW Date/time: 17-4-2008, 0600 UTC<br>Remarks: ID 64761 02041 51532 Contr: (Jon-FL)                                 |
| 5800   | M08a | Mode: MCW Date/time: 19-4-2008, 0600 UTC<br>Remarks: ID 60342 05242 51712 Contr: (Jon-FL)                                 |
| 5800   | M08a | Mode: MCW Date/time: 21-4-2008, 0600 UTC<br>Remarks: ID xxxxx 30062 10532 (late start, no callup)<br>Contr: (Jon-FL)      |
| 5800   | M08a | Mode: MCW Date/time: 22-4-2008, 0600 UTC<br>Remarks: ID 60511 48551 41283 Contr: (Jon-FL)                                 |

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| 5800   | M08a | Mode: MCW Date/time: 24-4-2008, 0600 UTC<br>Remarks: ID 47061 42352 58573 Contr: (Jon-FL)                              |
| 5800   | M08a | Mode: MCW Date/time: 26-4-2008, 0600 UTC<br>Remarks: ID 85071 05141 85183 Contr: (Jon-FL)                              |
| 5800   | M08a | Mode: MCW Date/time: 28-4-2008, 0600 UTC<br>Remarks: ID 43681 62541 81561 Contr: (Jon-FL)                              |
| 5800   | M08a | Mode: MCW Date/time: 29-4-2008, 0600 UTC<br>Remarks: ID 51433 22302 36073 Contr: (Jon-FL)                              |
| 5800   | V02a | Mode: AM Date/time: 14-4-2008, 0300 UTC<br>Remarks: A xxxxx xxxxx 77373 (in progress, missed callup) Contr: (Jon-FL)   |
| 5800   | V02a | Mode: CW Date/time: 19-4-2008, 0629 UTC<br>Remarks: ip Contr: (Vambo)                                                  |
| 5800   | V02a | Mode: AM Date/time: 21-4-2008, 0300 UTC<br>Remarks: A xxxxx 97161 47003 (weak) Contr: (Jon-FL)                         |
| 5800.0 | M08a | Mode: MCW Date/time: Tue 1-4-2008, 0600 UTC<br>Remarks: 5-fig cut numbers 34748 68527 34283<br>Contr: (Westli)         |
| 5800.0 | M08a | Mode: MCW Date/time: Thu 3-4-2008, 0600 UTC<br>Remarks: 5-fig cut numbers 68168 48803 83303<br>Contr: (Westli)         |
| 5800.0 | M08a | Mode: MCW Date/time: Sat 5-4-2008, 0600 UTC<br>Remarks: 5-fig cut numbers 68742 48551 16761<br>Contr: (Westli)         |
| 5800.0 | M08a | Mode: CW Date/time: Mon 7-4-2008, 0600 UTC<br>Remarks: 5-fig cut numbers 38457 48654 07542<br>Contr: (Westli)          |
| 5800.0 | M08a | Mode: MCW Date/time: Tue 8-4-2008, 0600 UTC<br>Remarks: 5-fig cut numbers 23516 30111 67230<br>Contr: (Westli)         |
| 5800.0 | M08a | Mode: MCW Date/time: Thu 10-4-2008, 0800 UTC<br>Remarks: 5-fig cut numbers 35503 80530 25270<br>Contr: (Westli)        |
| 5800.0 | M08a | Mode: MCW Date/time: Mon 14-4-2008, 0600 UTC<br>Remarks: 5-fig cut numbers 26212 47851 72551<br>Contr: (Westli)        |
| 5800.0 | M08a | Mode: MCW Date/time: Tue 15-4-2008, 0600 UTC<br>Remarks: 5-fig cut numbers 61112 73182 52411<br>Contr: (Westli)        |
| 5800.0 | M08a | Mode: MCW Date/time: Thu 17-4-2008, 0600 UTC<br>Remarks: 5-fig cut numbers caught late, no cs noted<br>Contr: (Westli) |
| 5800.0 | M08a | Mode: MCW Date/time: Sat 19-4-2008, 0600 UTC<br>Remarks: ID 60342 05242 51712 Contr: (MS)                              |
| 5800.0 | M08a | Mode: MCW Date/time: Sat 19-4-2008, 0600 UTC<br>Remarks: 5-fig cut numbers 60342 05242 51712<br>Contr: (Westli)        |
| 5800.0 | M08a | Mode: MCW Date/time: Mon 21-4-2008, 0600 UTC                                                                           |

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| 5800.0 | M08a | Remarks: 5-fig cut numbers no cs noted Contr: (Westli)<br>Mode: MCW Date/time: Tue 22-4-2008, 0600 UTC<br>Remarks: 5-fig cut numbers 60511 48551 41283<br>Contr: (Westli) |
| 5800.0 | M08a | Mode: MCW Date/time: Tue 22-4-2008, 0600 UTC<br>Remarks: ID 60511 48551 41283 Contr: (MS)                                                                                 |
| 5800.0 | M08a | Mode: MCW Date/time: Thu 24-4-2008, 0600 UTC<br>Remarks: 5-fig cut numbers 58573 47061 42352<br>Contr: (Westli)                                                           |
| 5800.0 | M08a | Mode: MCW Date/time: Tue 29-4-2008, 0600 UTC<br>Remarks: 5-fig cut numbers 22202 36073 51433<br>Contr: (Westli)                                                           |
| 5801.0 | M08a | Mode: CW Date/time: 15-4-2008, 0610 UTC<br>Remarks: + + + NGRMA NGRMA NGRMA NGRMA<br>NGRMA = = = Contr: (BCI)                                                             |
| 5820   | E10  | Mode: AM Date/time: 26-4-2008, 2133 UTC<br>Remarks: YHF2 Contr: (SW2)                                                                                                     |
| 5820   | E10  | Mode: AM Date/time: 28-4-2008, 2232 UTC<br>Remarks: YHF2 Contr: (SW2)                                                                                                     |
| 5820   | E10  | Mode: AM Date/time: 29-4-2008, 1934 UTC<br>Remarks: YHF msg grp 118 [MQQMK] Contr: (SW2)                                                                                  |
| 5820.0 | E10  | Mode: AM Date/time: Sat 12-4-2008, 1530 UTC<br>Remarks: Signal up to S7 - Letter Station Contr:<br>(DL3ZY)                                                                |
| 5820.0 | E10  | Mode: AM Date/time: 14-4-2008, 2130 UTC<br>Remarks: YHF2 Contr: (BCI)                                                                                                     |
| 5828.5 | M51  | Mode: CW Date/time: 31-3-2008, 0723 UTC<br>Remarks: "NR 14 T1 09:26:43 1980 BT ETYOV"<br>Contr: (BCI)                                                                     |
| 5881.5 | M51  | Mode: CW Date/time: 31-3-2008, 0716 UTC<br>Remarks: "NR 11 M 1 09:08:02 1980 BT TLFXX<br>EPUBS" Contr: (BCI)                                                              |
| 5882   | M08a | Mode: CW Date/time: 2-4-2008, 1400 UTC<br>Remarks: ID 83864 82178 00200 Contr: (Jon-FL)                                                                                   |
| 5882   | M08a | Mode: CW Date/time: 30-4-2008, 1400 UTC<br>Remarks: ID 16261 81602 37801 Contr: (Jon-FL)                                                                                  |
| 5883   | V02a | Mode: AM Date/time: 1-4-2008, 0700 UTC<br>Remarks: A 60724 22762 31186 Contr: (Jon-FL)                                                                                    |
| 5883   | V02a | Mode: AM Date/time: 3-4-2008, 0700 UTC<br>Remarks: A 38051 70834 82808 Contr: (Jon-FL)                                                                                    |
| 5883   | V02a | Mode: AM Date/time: 4-4-2008, 0700 UTC<br>Remarks: A 82435 62511 74343 Contr: (Jon-FL)                                                                                    |
| 5883   | V02a | Mode: AM Date/time: 5-4-2008, 0700 UTC<br>Remarks: A 81981 58153 25551 Contr: (Jon-FL)                                                                                    |
| 5883   | V02a | Mode: AM Date/time: 7-4-2008, 0700 UTC<br>Remarks: A 12635 38021 15282 (TX problems) Contr:<br>(Jon-FL)                                                                   |
| 5883   | V02a | Mode: AM Date/time: 8-4-2008, 0700 UTC                                                                                                                                    |

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|--------|------|-------------------------------------------------------------------------------|
|        |      | Remarks: A 54565 61512 45377 (uno) Contr: (Jon-FL)                            |
| 5883   | V02a | Mode: AM Date/time: 10-4-2008, 0700 UTC                                       |
|        |      | Remarks: A 92431 41525 82480 Contr: (Jon-FL)                                  |
| 5883   | V02a | Mode: AM Date/time: 11-4-2008, 0700 UTC                                       |
|        |      | Remarks: A xxxxx 53027 77676 (in progress, missed callup) Contr: (Jon-FL)     |
| 5883   | V02a | Mode: AM Date/time: 12-4-2008, 0700 UTC                                       |
|        |      | Remarks: A 33452 53671 34372 Contr: (Jon-FL)                                  |
| 5883   | V02a | Mode: AM Date/time: 14-4-2008, 0700 UTC                                       |
|        |      | Remarks: A 46161 47543 71713 Contr: (Jon-FL)                                  |
| 5883   | V02a | Mode: AM Date/time: 15-4-2008, 0700 UTC                                       |
|        |      | Remarks: A 55162 53361 14633 Contr: (Jon-FL)                                  |
| 5883   | V02a | Mode: AM Date/time: 17-4-2008, 0700 UTC                                       |
|        |      | Remarks: A 56522 20823 00031 Contr: (Jon-FL)                                  |
| 5883   | V02a | Mode: AM Date/time: 18-4-2008, 0700 UTC                                       |
|        |      | Remarks: A 56523 46832 05633 Contr: (Jon-FL)                                  |
| 5883   | V02a | Mode: AM Date/time: 19-4-2008, 0700 UTC                                       |
|        |      | Remarks: A 48971 38221 71831 Contr: (Jon-FL)                                  |
| 5883   | V02a | Mode: AM Date/time: 21-4-2008, 0700 UTC                                       |
|        |      | Remarks: A 30321 45453 64153 Contr: (Jon-FL)                                  |
| 5883   | V02a | Mode: AM Date/time: 22-4-2008, 0700 UTC                                       |
|        |      | Remarks: A 72151 22131 21732 Contr: (Jon-FL)                                  |
| 5883   | V02a | Mode: AM Date/time: 24-4-2008, 0700 UTC                                       |
|        |      | Remarks: A 05591 25083 16801 Contr: (Jon-FL)                                  |
| 5883   | V02a | Mode: AM Date/time: 25-4-2008, 0700 UTC                                       |
|        |      | Remarks: A 05592 00412 28072 Contr: (Jon-FL)                                  |
| 5883   | V02a | Mode: AM Date/time: 26-4-2008, 0700 UTC                                       |
|        |      | Remarks: A 05593 16052 55231 (uno) Contr: (Jon-FL)                            |
| 5883   | V02a | Mode: AM Date/time: 27-4-2008, 0700 UTC                                       |
|        |      | Remarks: A 40363 63102 66673 Contr: (Jon-FL)                                  |
| 5883   | V02a | Mode: AM Date/time: 28-4-2008, 0700 UTC                                       |
|        |      | Remarks: A 13541 40711 07642 Contr: (Jon-FL)                                  |
| 5883   | V02a | Mode: AM Date/time: 29-4-2008, 0700 UTC                                       |
|        |      | Remarks: A 13263 72402 15452 (uno) Contr: (Jon-FL)                            |
| 5883.0 | V02a | Mode: AM Date/time: Tue 1-4-2008, 0700 UTC                                    |
|        |      | Remarks: A 60724 22762 31186 (YL/SS) Contr: (MS)                              |
| 5883.0 | V02a | Mode: AM Date/time: Tue 1-4-2008, 0700 UTC                                    |
|        |      | Remarks: SSYL 5-fig atencion 60724 22762 31186 Contr: (Westli)                |
| 5883.0 | V02a | Mode: AM Date/time: Tue 1-4-2008, 0800 UTC                                    |
|        |      | Remarks: A 60724 22762 31186 (YL/SS)(Expected this sked on 5898m) Contr: (MS) |
| 5883.0 | V02a | Mode: AM Date/time: Thu 3-4-2008, 0700 UTC                                    |
|        |      | Remarks: SSYL 5-fig atencion 38051 70834 82808 Contr: (Westli)                |
| 5883.0 | V02a | Mode: AM Date/time: Thu 3-4-2008, 0700 UTC                                    |
|        |      | Remarks: A 38051 70834 82808 (YL/SS) Contr: (MS)                              |
| 5883.0 | V02a | Mode: AM Date/time: Fri 4-4-2008, 0700 UTC                                    |

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|        |      | Remarks: A 82435 62511 74343 (YL/SS) Contr: (MS)       |
| 5883.0 | V02a | Mode: AM Date/time: Sat 5-4-2008, 0700 UTC             |
|        |      | Remarks: A 81981 58153 25551 (YL/SS) Contr: (MS)       |
| 5883.0 | V02a | Mode: AM Date/time: Sun 6-4-2008, 0700 UTC             |
|        |      | Remarks: A 81982 72745 21426 (YL/SS.) Contr: (MS)      |
| 5883.0 | V02a | Mode: AM Date/time: Mon 7-4-2008, 0700 UTC             |
|        |      | Remarks: SSYL 5-fig atencion 12635 38021 15282         |
|        |      | Contr: (Westli)                                        |
| 5883.0 | V02a | Mode: AM Date/time: Mon 7-4-2008, 0700 UTC             |
|        |      | Remarks: A 12635 38021 15282 (YL/SS) Contr: (MS)       |
| 5883.0 | V02a | Mode: AM Date/time: Tue 8-4-2008, 0700 UTC             |
|        |      | Remarks: A 54565 61512 45377 (YL/SS) Contr: (MS)       |
| 5883.0 | V02a | Mode: AM Date/time: Tue 8-4-2008, 0700 UTC             |
|        |      | Remarks: SSYL 5-fig atencion 54565 61512 45377         |
|        |      | Contr: (Westli)                                        |
| 5883.0 | V02a | Mode: AM Date/time: Thu 10-4-2008, 0700 UTC            |
|        |      | Remarks: SSYL 5-fig atencion 92431 41525 82480         |
|        |      | Contr: (Westli)                                        |
| 5883.0 | V02a | Mode: AM Date/time: Thu 10-4-2008, 0700 UTC            |
|        |      | Remarks: A 92431 41525 82480 (YL/SS) Contr: (MS)       |
| 5883.0 | V02a | Mode: AM Date/time: Fri 11-4-2008, 0700 UTC            |
|        |      | Remarks: A 33451 53027 77676 (YL/SS) Contr: (MS)       |
| 5883.0 | V02a | Mode: AM Date/time: Mon 14-4-2008, 0700 UTC            |
|        |      | Remarks: A 46161 47543 71713 (YL/SS) Contr: (MS)       |
| 5883.0 | V02a | Mode: AM Date/time: Mon 14-4-2008, 0700 UTC            |
|        |      | Remarks: SSYL 5-fig atencion 46161 47543 71713         |
|        |      | Contr: (Westli)                                        |
| 5883.0 | V02a | Mode: AM Date/time: Tue 15-4-2008, 0700 UTC            |
|        |      | Remarks: A 55162 53361 14633 (YL/SS) Contr: (MS)       |
| 5883.0 | V02a | Mode: AM Date/time: Tue 15-4-2008, 0700 UTC            |
|        |      | Remarks: SSYL 5-fig atencion 76852 40443 46033         |
|        |      | Contr: (Westli)                                        |
| 5883.0 | V02a | Mode: AM Date/time: Thu 17-4-2008, 0700 UTC            |
|        |      | Remarks: A 56522 20823 00031 (YL/SS) Contr: (MS)       |
| 5883.0 | V02a | Mode: AM Date/time: Thu 17-4-2008, 0700 UTC            |
|        |      | Remarks: SSYL 5-fig atencion 56522 20823 00031         |
|        |      | Contr: (Westli)                                        |
| 5883.0 | V02a | Mode: AM Date/time: 17-4-2008, 0725 UTC                |
|        |      | Remarks: 5F msgs Contr: (TS)                           |
| 5883.0 | V02a | Mode: AM Date/time: Fri 18-4-2008, 0700 UTC            |
|        |      | Remarks: A 56523 46832 05633 (YL/SS) Contr: (MS)       |
| 5883.0 | V02a | Mode: AM Date/time: Sun 20-4-2008, 0700 UTC            |
|        |      | Remarks: A 66552 18342 68821 (YL/SS) Contr: (MS)       |
| 5883.0 | V02a | Mode: AM Date/time: Sun 20-4-2008, 0700 UTC            |
|        |      | Remarks: Signal strength fair,SS/YL / 5 fg Contr: (EC) |
| 5883.0 | V02a | Mode: AM Date/time: Mon 21-4-2008, 0700 UTC            |
|        |      | Remarks: A 30321 45453 64153 (YL/SS) Contr: (MS)       |
| 5883.0 | V02a | Mode: AM Date/time: Mon 21-4-2008, 0700 UTC            |

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|--------|------|---------------------------------------------------------------------------------------------------------------------------------|
|        |      | Remarks: SSYL 5-fig atencion 30321 45453 64153<br>Contr: (Westli)                                                               |
| 5883.0 | V02a | Mode: AM Date/time: Tue 22-4-2008, 0700 UTC<br>Remarks: A 72151 22131 21732 (YL/SS) Contr: (MS)                                 |
| 5883.0 | V02a | Mode: AM Date/time: Tue 22-4-2008, 0700 UTC<br>Remarks: SSYL 5-fig atencion 72151 22131 21732<br>Contr: (Westli)                |
| 5883.0 | V02a | Mode: AM Date/time: Thu 24-4-2008, 0700 UTC<br>Remarks: A 05591 25083 16801 (YL/SS) Contr: (MS)                                 |
| 5883.0 | V02a | Mode: AM Date/time: Thu 24-4-2008, 0700 UTC<br>Remarks: SSYL 5-fig atencion 05591 25083 16801<br>Contr: (Westli)                |
| 5883.0 | V02a | Mode: AM Date/time: Fri 25-4-2008, 0700 UTC<br>Remarks: (Starts and then stops.) Contr: (MS)                                    |
| 5883.0 | V02a | Mode: AM Date/time: Sat 26-4-2008, 0007 UTC<br>Remarks: Abruptly start , ATENCION 05593 16052<br>55231 Contr: (AMI)             |
| 5883.0 | V02a | Mode: AM Date/time: Sat 26-4-2008, 0700 UTC<br>Remarks: A 05593 16052 55231 (YL/SS) Contr: (MS)                                 |
| 5883.0 | V02a | Mode: AM Date/time: Mon 28-4-2008, 0700 UTC<br>Remarks: A 13263 72402 15452 (YL/SS.) Contr: (MS)                                |
| 5883.0 | V02a | Mode: AM Date/time: Mon 28-4-2008, 0728 UTC<br>Remarks: A ..... 07642 (YL/SS. In late, missed<br>calls.) Contr: (MS)            |
| 5883.0 | V02a | Mode: AM Date/time: Tue 29-4-2008, 0700 UTC<br>Remarks: SSYL 5-fig atencion 13263 72402 15452<br>Contr: (Westli)                |
| 5883.0 | V02a | Mode: AM Date/time: Wed 30-4-2008, 0007 UTC<br>Remarks: very strong signal Contr: (AMI)                                         |
| 5898   | M08a | Mode: MCW Date/time: 1-4-2008, 0500 UTC<br>Remarks: ID 34748 68527 34283 Contr: (Jon-FL)                                        |
| 5898   | M08a | Mode: MCW Date/time: 3-4-2008, 0500 UTC<br>Remarks: ID xxxxx 83303 68168 ((Jon-FL) RDFT<br>attempts, then M08a) Contr: (Jon-FL) |
| 5898   | M08a | Mode: MCW Date/time: 5-4-2008, 0500 UTC<br>Remarks: ID 21323 48551 02513 Contr: (Jon-FL)                                        |
| 5898   | M08a | Mode: MCW Date/time: 7-4-2008, 0500 UTC<br>Remarks: ID 38457 48654 07542 Contr: (Jon-FL)                                        |
| 5898   | M08a | Mode: MCW Date/time: 8-4-2008, 0500 UTC<br>Remarks: ID 23516 30111 67230 Contr: (Jon-FL)                                        |
| 5898   | M08a | Mode: MCW Date/time: 10-4-2008, 0500 UTC<br>Remarks: ID 25270 35503 80530 Contr: (Jon-FL)                                       |
| 5898   | M08a | Mode: MCW Date/time: 12-4-2008, 0500 UTC<br>Remarks: ID 05281 97757 56482 Contr: (Jon-FL)                                       |
| 5898   | M08a | Mode: MCW Date/time: 14-4-2008, 0500 UTC<br>Remarks: ID 72551 26212 43782 Contr: (Jon-FL)                                       |
| 5898   | M08a | Mode: MCW Date/time: 15-4-2008, 0500 UTC<br>Remarks: ID 73182 52411 61112 Contr: (Jon-FL)                                       |



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| 5898 | M08a | Mode: MCW Date/time: 17-4-2008, 0500 UTC<br>Remarks: ID 64761 02041 51532 Contr: (Jon-FL)                                 |
| 5898 | M08a | Mode: MCW Date/time: 19-4-2008, 0500 UTC<br>Remarks: ID xxxxx 05242 51712 (late start, no callup)<br>Contr: (Jon-FL)      |
| 5898 | M08a | Mode: MCW Date/time: 21-4-2008, 0500 UTC<br>Remarks: ID 63271 30062 10532 Contr: (Jon-FL)                                 |
| 5898 | M08a | Mode: MCW Date/time: 22-4-2008, 0500 UTC<br>Remarks: ID 60511 48551 41283 Contr: (Jon-FL)                                 |
| 5898 | M08a | Mode: MCW Date/time: 24-4-2008, 0500 UTC<br>Remarks: ID 47061 42352 58573 (late start, partial<br>callup) Contr: (Jon-FL) |
| 5898 | M08a | Mode: MCW Date/time: 26-4-2008, 0500 UTC<br>Remarks: ID 85071 05141 85183 Contr: (Jon-FL)                                 |
| 5898 | M08a | Mode: MCW Date/time: 28-4-2008, 0500 UTC<br>Remarks: ID xxxxx 62541 81561 (late start, no callup)<br>Contr: (Jon-FL)      |
| 5898 | M08a | Mode: MCW Date/time: 29-4-2008, 0500 UTC<br>Remarks: ID 51433 22302 36073 Contr: (Jon-FL)                                 |
| 5898 | V02a | Mode: AM Date/time: 3-4-2008, 0800 UTC<br>Remarks: A 38051 70834 82808 Contr: (Jon-FL)                                    |
| 5898 | V02a | Mode: AM Date/time: 4-4-2008, 0800 UTC<br>Remarks: A 82435 62511 74343 Contr: (Jon-FL)                                    |
| 5898 | V02a | Mode: AM Date/time: 5-4-2008, 0800 UTC<br>Remarks: A 81981 58153 25551 Contr: (Jon-FL)                                    |
| 5898 | V02a | Mode: AM Date/time: 6-4-2008, 0800 UTC<br>Remarks: A 81982 72745 21426 Contr: (Jon-FL)                                    |
| 5898 | V02a | Mode: AM Date/time: 7-4-2008, 0800 UTC<br>Remarks: A 12635 38021 15282 (weak M08a mixed)<br>Contr: (Jon-FL)               |
| 5898 | V02a | Mode: AM Date/time: 8-4-2008, 0800 UTC<br>Remarks: A 54565 61512 45377 Contr: (Jon-FL)                                    |
| 5898 | V02a | Mode: AM Date/time: 10-4-2008, 0800 UTC<br>Remarks: A 92431 41525 82480 Contr: (Jon-FL)                                   |
| 5898 | V02a | Mode: AM Date/time: 11-4-2008, 0800 UTC<br>Remarks: A 33451 53027 77676 Contr: (Jon-FL)                                   |
| 5898 | V02a | Mode: AM Date/time: 12-4-2008, 0800 UTC<br>Remarks: A 33452 53671 34372 Contr: (Jon-FL)                                   |
| 5898 | V02a | Mode: AM Date/time: 13-4-2008, 0800 UTC<br>Remarks: A 33453 26403 27243 Contr: (Jon-FL)                                   |
| 5898 | V02a | Mode: AM Date/time: 14-4-2008, 0800 UTC<br>Remarks: A 46161 47543 71713 Contr: (Jon-FL)                                   |
| 5898 | V02a | Mode: AM Date/time: 15-4-2008, 0800 UTC<br>Remarks: A 55162 53361 14633 Contr: (Jon-FL)                                   |
| 5898 | V02a | Mode: AM Date/time: 17-4-2008, 0800 UTC<br>Remarks: A 56522 20823 00031 Contr: (Jon-FL)                                   |
| 5898 | V02a | Mode: AM Date/time: 18-4-2008, 0800 UTC<br>Remarks: A 56523 46832 05633 Contr: (Jon-FL)                                   |

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| 5898   | V02a | Mode: AM Date/time: 19-4-2008, 0800 UTC<br>Remarks: A 48971 38221 71831 Contr: (Jon-FL)                         |
| 5898   | V02a | Mode: AM Date/time: 20-4-2008, 0800 UTC<br>Remarks: A 66553 18342 68821 Contr: (Jon-FL)                         |
| 5898   | V02a | Mode: AM Date/time: 21-4-2008, 0800 UTC<br>Remarks: A 30321 45453 64153 Contr: (Jon-FL)                         |
| 5898   | V02a | Mode: AM Date/time: 22-4-2008, 0800 UTC<br>Remarks: A 72151 22131 21732 Contr: (Jon-FL)                         |
| 5898   | V02a | Mode: AM Date/time: 24-4-2008, 0800 UTC<br>Remarks: A 05591 25083 16801 Contr: (Jon-FL)                         |
| 5898   | V02a | Mode: AM Date/time: 25-4-2008, 0800 UTC<br>Remarks: A 05592 00412 28072 (dos) Contr: (Jon-FL)                   |
| 5898   | V02a | Mode: AM Date/time: 26-4-2008, 0800 UTC<br>Remarks: A 05593 16052 55231 (uno, RX error) Contr: (Jon-FL)         |
| 5898   | V02a | Mode: AM Date/time: 27-4-2008, 0800 UTC<br>Remarks: A 76741 36803 35761 Contr: (Jon-FL)                         |
| 5898   | V02a | Mode: AM Date/time: 28-4-2008, 0800 UTC<br>Remarks: A 13541 40711 07642 Contr: (Jon-FL)                         |
| 5898   | V02a | Mode: AM Date/time: 29-4-2008, 0800 UTC<br>Remarks: A 13263 72402 15452 Contr: (Jon-FL)                         |
| 5898.0 | M08a | Mode: MCW Date/time: Tue 1-4-2008, 0500 UTC<br>Remarks: only 1 group heard 17487 Contr: (Westli)                |
| 5898.0 | M08a | Mode: MCW Date/time: Sat 5-4-2008, 0500 UTC<br>Remarks: 5-fig cut numbers 02513 21323 18561<br>Contr: (Westli)  |
| 5898.0 | M08a | Mode: MCW Date/time: Mon 7-4-2008, 0500 UTC<br>Remarks: 5-fig cut numbers 38457 48654 07542<br>Contr: (Westli)  |
| 5898.0 | M08a | Mode: MCW Date/time: Tue 8-4-2008, 0500 UTC<br>Remarks: 5-fig cut numbers 23516 30111 67230<br>Contr: (Westli)  |
| 5898.0 | M08a | Mode: MCW Date/time: Thu 10-4-2008, 0501 UTC<br>Remarks: 5-fig cut numbers 35503 80530 25270<br>Contr: (Westli) |
| 5898.0 | M08a | Mode: MCW Date/time: Mon 14-4-2008, 0500 UTC<br>Remarks: 5-fig cut numbers 26212 47851 72551<br>Contr: (Westli) |
| 5898.0 | M08a | Mode: MCW Date/time: Tue 15-4-2008, 0500 UTC<br>Remarks: 5-fig cut numbers 61112 73182 52411<br>Contr: (Westli) |
| 5898.0 | M08a | Mode: AM Date/time: Tue 15-4-2008, 0507 UTC<br>Remarks: Strong signal ,cut numbers Contr: (AMI)                 |
| 5898.0 | M08a | Mode: MCW Date/time: Sat 19-4-2008, 0500 UTC<br>Remarks: ID 60342 05242 51712 Contr: (MS)                       |
| 5898.0 | M08a | Mode: MCW Date/time: Sat 19-4-2008, 0500 UTC<br>Remarks: 5-fig cut numbers 60342 05242 51712<br>Contr: (Westli) |

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| 5898.0 | M08a | Mode: MCW Date/time: Mon 21-4-2008, 0500 UTC<br>Remarks: 5-fig cut numbers appeared to go right into<br>msg Contr: (Westli)     |
| 5898.0 | M08a | Mode: MCW Date/time: Mon 21-4-2008, 0500 UTC<br>Remarks: Cut Numbers Grp of 5 Contr: (ANPR)                                     |
| 5898.0 | M08a | Mode: MCW Date/time: Mon 21-4-2008, 0600 UTC<br>Remarks: Started RDNIA repeat, then cut # Grp of 5<br>Contr: (ANPR)             |
| 5898.0 | M08a | Mode: MCW Date/time: Mon 21-4-2008, 0600 UTC<br>Remarks: 5-fig cut numbers 40062 10532 63271<br>Contr: (Westli)                 |
| 5898.0 | M08a | Mode: MCW Date/time: Tue 22-4-2008, 0500 UTC<br>Remarks: 5-fig cut numbers 60511 48551 41283<br>Contr: (Westli)                 |
| 5898.0 | M08a | Mode: MCW Date/time: Thu 24-4-2008, 0500 UTC<br>Remarks: 5-fig cut numbers msg already started, no cs<br>noted. Contr: (Westli) |
| 5898.0 | M08a | Mode: MCW Date/time: Tue 29-4-2008, 0500 UTC<br>Remarks: 5-fig cut numbers 22202 36073 51433<br>Contr: (Westli)                 |
| 5898.0 | V02a | Mode: AM Date/time: Thu 3-4-2008, 0800 UTC<br>Remarks: A 38051 70834 82808 (YL/SS) Contr: (MS)                                  |
| 5898.0 | V02a | Mode: AM Date/time: Thu 3-4-2008, 0800 UTC<br>Remarks: SSYL 5-fig atencion 38051 70834 82808<br>Contr: (Westli)                 |
| 5898.0 | V02a | Mode: AM Date/time: Fri 4-4-2008, 0800 UTC<br>Remarks: A 82435 62511 74343 (YL/SS) Contr: (MS)                                  |
| 5898.0 | V02a | Mode: AM Date/time: Fri 4-4-2008, 0800 UTC<br>Remarks: SSYL 5-fig atencion 82435 62511 74343<br>Contr: (Westli)                 |
| 5898.0 | V02a | Mode: AM Date/time: Sat 5-4-2008, 0800 UTC<br>Remarks: A 81981 58153 25551 (YL/SS) Contr: (MS)                                  |
| 5898.0 | V02a | Mode: AM Date/time: Sat 5-4-2008, 0800 UTC<br>Remarks: SSYL 5-fig atencion 81989 58153 25551<br>heavy QSB Contr: (Westli)       |
| 5898.0 | V02a | Mode: AM Date/time: Sun 6-4-2008, 0800 UTC<br>Remarks: SSYL 5-fig atencion 81982 72745 21426<br>Contr: (Westli)                 |
| 5898.0 | V02a | Mode: AM Date/time: Sun 6-4-2008, 0800 UTC<br>Remarks: A 81982 72745 21426 (YL/SS.) Contr: (MS)                                 |
| 5898.0 | V02a | Mode: AM Date/time: Mon 7-4-2008, 0800 UTC<br>Remarks: A 12635 38021 15282 (YL/SS) Contr: (MS)                                  |
| 5898.0 | V02a | Mode: AM Date/time: Mon 7-4-2008, 0800 UTC<br>Remarks: SSYL 5-fig atencion 12635 38021 15282<br>Contr: (Westli)                 |
| 5898.0 | V02a | Mode: AM Date/time: Tue 8-4-2008, 0800 UTC<br>Remarks: 54565 61512 45377 Contr: (Westli)                                        |
| 5898.0 | V02a | Mode: AM Date/time: Tue 8-4-2008, 0800 UTC                                                                                      |

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|        |      | Remarks: A 54565 61512 45377 (YL/SS) Contr: (MS)                                                                 |
| 5898.0 | V02a | Mode: AM Date/time: Thu 10-4-2008, 0800 UTC<br>Remarks: SSYL 5-fig atencion 92431 41525 82480<br>Contr: (Westli) |
| 5898.0 | V02a | Mode: AM Date/time: Thu 10-4-2008, 0800 UTC<br>Remarks: A 92431 41525 82480 (YL/SS) Contr: (MS)                  |
| 5898.0 | V02a | Mode: AM Date/time: Fri 11-4-2008, 0800 UTC<br>Remarks: A 33451 53027 77676 (YL/SS) Contr: (MS)                  |
| 5898.0 | V02a | Mode: AM Date/time: Fri 11-4-2008, 0800 UTC<br>Remarks: SSYL 5-fig atencion 33451 53027 77676<br>Contr: (Westli) |
| 5898.0 | V02a | Mode: AM Date/time: Fri 11-4-2008, 0803 UTC<br>Remarks: 5 number groups in spanish Contr: (KP)                   |
| 5898.0 | V02a | Mode: AM Date/time: Sat 12-4-2008, 0814 UTC<br>Remarks: A ..... 53671 34372 (YL/SS) Contr: (MS)                  |
| 5898.0 | V02a | Mode: AM Date/time: Mon 14-4-2008, 0800 UTC<br>Remarks: SSYL 5-fig atencion 46161 47543 71713<br>Contr: (Westli) |
| 5898.0 | V02a | Mode: AM Date/time: Mon 14-4-2008, 0800 UTC<br>Remarks: A 46161 47543 71713 (YL/SS) Contr: (MS)                  |
| 5898.0 | V02a | Mode: AM Date/time: Tue 15-4-2008, 0800 UTC<br>Remarks: A 55162 53361 14633 (YL/SS) Contr: (MS)                  |
| 5898.0 | V02a | Mode: AM Date/time: Tue 15-4-2008, 0800 UTC<br>Remarks: SSYL 5-fig atencion 76852 40443 46033<br>Contr: (Westli) |
| 5898.0 | V02a | Mode: AM Date/time: Thu 17-4-2008, 0800 UTC<br>Remarks: SSYL 5-fig atencion 56522 20823 00031<br>Contr: (Westli) |
| 5898.0 | V02a | Mode: AM Date/time: Thu 17-4-2008, 0800 UTC<br>Remarks: A 56522 20823 00031 (YL/SS) Contr: (MS)                  |
| 5898.0 | V02a | Mode: AM Date/time: Fri 18-4-2008, 0800 UTC<br>Remarks: A 56523 46832 05633 (YL/SS) Contr: (MS)                  |
| 5898.0 | V02a | Mode: AM Date/time: Fri 18-4-2008, 0800 UTC<br>Remarks: SSYL 5-fig atencion 56523 46832 05633<br>Contr: (Westli) |
| 5898.0 | V02a | Mode: AM Date/time: Sat 19-4-2008, 0800 UTC<br>Remarks: SSYL 5-fig atencion 48971 38221 71831<br>Contr: (Westli) |
| 5898.0 | V02a | Mode: AM Date/time: Sun 20-4-2008, 0800 UTC<br>Remarks: SSYL 5-fig atencion 66553 18342 68821<br>Contr: (Westli) |
| 5898.0 | V02a | Mode: AM Date/time: Sun 20-4-2008, 0800 UTC<br>Remarks: A 66552 18342 68821 (YL/SS) Contr: (MS)                  |
| 5898.0 | V02a | Mode: AM Date/time: Sun 20-4-2008, 0800 UTC<br>Remarks: Signal strength fair, SS/YL/ 5fg Contr: (EC)             |
| 5898.0 | V02a | Mode: AM Date/time: Mon 21-4-2008, 0800 UTC<br>Remarks: A 30321 45453 64153 (YL/SS) Contr: (MS)                  |
| 5898.0 | V02a | Mode: AM Date/time: Mon 21-4-2008, 0800 UTC                                                                      |

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|        |      | Remarks: SSSL 5-fig atencion 30321 45453 64153<br>Contr: (Westli)                                                                    |
| 5898.0 | V02a | Mode: AM Date/time: Tue 22-4-2008, 0800 UTC<br>Remarks: A 72151 22131 21732 (YL/SS) Contr: (MS)                                      |
| 5898.0 | V02a | Mode: AM Date/time: Tue 22-4-2008, 0800 UTC<br>Remarks: SSSL 5-fig atencion 72151 22131 21732<br>Contr: (Westli)                     |
| 5898.0 | V02a | Mode: AM Date/time: Thu 24-4-2008, 0800 UTC<br>Remarks: A 05591 25083 16801 (YL/SS) Contr: (MS)                                      |
| 5898.0 | V02a | Mode: AM Date/time: Thu 24-4-2008, 0800 UTC<br>Remarks: SSSL 5-fig atencion 05591 25083 16801<br>Contr: (Westli)                     |
| 5898.0 | V02a | Mode: AM Date/time: Fri 25-4-2008, 0800 UTC<br>Remarks: A 05592 00412 28072 (YL/SS) Contr: (MS)                                      |
| 5898.0 | V02a | Mode: AM Date/time: Sat 26-4-2008, 0800 UTC<br>Remarks: A 05593 16052 55231 (YL/SS) Contr: (MS)                                      |
| 5898.0 | V02a | Mode: AM Date/time: Mon 28-4-2008, 0800 UTC<br>Remarks: A 13263 72402 15452 (YL/SS.) Contr: (MS)                                     |
| 5898.0 | V02a | Mode: AM Date/time: Mon 28-4-2008, 0800 UTC<br>Remarks: A 13541 40711 07642 (YL/SS.) Contr: (MS)                                     |
| 5898.0 | V02a | Mode: AM Date/time: Tue 29-4-2008, 0800 UTC<br>Remarks: SSSL 5-fig atencion 13263 72402 15452<br>Contr: (Westli)                     |
| 5900.0 | M08a | Mode: MCW Date/time: Thu 3-4-2008, 0500 UTC<br>Remarks: 5-fig cut numbers 68168 48803 83303<br>Contr: (Westli)                       |
| 5900.0 | M08a | Mode: MCW Date/time: Mon 7-4-2008, 0500 UTC<br>Remarks: 5-fig cut numbers 36457 48654 07542<br>Contr: (Westli)                       |
| 5900.0 | M08a | Mode: CW Date/time: Tue 8-4-2008, 0500 UTC<br>Remarks: 5-fig cut numbers 23516 30111 67230<br>Contr: (Westli)                        |
| 5900.0 | V02a | Mode: AM Date/time: Sat 19-4-2008, 0830 UTC<br>Remarks: very strong signal on west coast, Spanish<br>lady, probably V2 Contr: (CGWA) |
| 5935.0 | M24  | Mode: CW Date/time: Tue 22-4-2008, 1710 UTC<br>Remarks: i.p. 000000 Contr: (FMB)                                                     |
| 6252   | E11  | Mode: USB Date/time: 2-4-2008, 1630 UTC<br>Remarks: 287/00 Contr: (RiN)                                                              |
| 6280.0 | E17z | Mode: USB Date/time: 12-4-2008, 0800 UTC<br>Remarks: 274-459/30=52401 Contr: (HFD)                                                   |
| 6370.0 | E10  | Mode: AM Date/time: Sun 13-4-2008, 1545 UTC<br>Remarks: Letter Station - CW and Digimode noise in<br>Background Contr: (DL3ZY)       |
| 6480   | E10  | Mode: AM Date/time: 1-4-2008, 2104 UTC<br>Remarks: EZI msg grp 64 [ZHBAE] //7690 kHz Contr:<br>(SW2)                                 |
| 6480   | E10  | Mode: AM Date/time: 1-4-2008, 2134 UTC                                                                                               |

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| 6480.0 | E10  | Remarks: EZI msg grp 88 [PCGVU] Contr: (SW2)<br>Mode: AM Date/time: 1-4-2008, 2104 UTC<br>Remarks: EZI: msg grp 64 [ZHBAE] //7690 khz Contr: (SW2) |
| 6480.0 | E10  | Mode: AM Date/time: 1-4-2008, 2134 UTC<br>Remarks: EZI: msg grp 88 [PCGVU] Contr: (SW2)                                                            |
| 6498   | E10  | Mode: AM Date/time: 27-4-2008, 2106 UTC<br>Remarks: PCD rpt msg grp 8 Contr: (SW2)                                                                 |
| 6515   | S06  | Mode: AM Date/time: 2-4-2008, 1450 UTC<br>Remarks: "624" 00000 Contr: (RiN)                                                                        |
| 6524.0 | E11  | Mode: USB Date/time: 1-4-2008, 1200 UTC<br>Remarks: 741/00 Contr: (HFD)                                                                            |
| 6529   | V21  | Mode: USB Date/time: 6-4-2008, 1301 UTC<br>Remarks: babblcr, very weak Contr: (Jon-FL)                                                             |
| 6575   | E10  | Mode: AM Date/time: 14-4-2008, 1610 UTC<br>Remarks: HNC Z Contr: (RiN)                                                                             |
| 6575   | E10  | Mode: AM Date/time: 17-4-2008, 2207 UTC<br>Remarks: HNC F Contr: (SW2)                                                                             |
| 6575   | E10A | Mode: AM Date/time: 26-4-2008, 2142 UTC<br>Remarks: HNC Contr: (SW2)                                                                               |
| 6575   | E10A | Mode: AM Date/time: 26-4-2008, 2156 UTC<br>Remarks: HNC F Contr: (SW2)                                                                             |
| 6768   | M08a | Mode: MCW Date/time: 14-4-2008, 0400 UTC<br>Remarks: ID xxxxx 17423 60321 (in progress, missed callup, weaker M08a mixed) Contr: (Jon-FL)          |
| 6768   | M08a | Mode: MCW Date/time: 21-4-2008, 0400 UTC<br>Remarks: ID 70261 35223 35381 Contr: (Jon-FL)                                                          |
| 6768   | V02a | Mode: AM Date/time: 7-4-2008, 0400 UTC<br>Remarks: (carrier, no audio) Contr: (Jon-FL)                                                             |
| 6768   | V02a | Mode: AM Date/time: 24-4-2008, 0700 UTC<br>Remarks: A 71431 87431 34561 Contr: (Jon-FL)                                                            |
| 6768   | V02a | Mode: AM Date/time: 26-4-2008, 0100 UTC<br>Remarks: A 71471 76202 28583 (uno) Contr: (Jon-FL)                                                      |
| 6768   | V02a | Mode: AM Date/time: 28-4-2008, 0400 UTC<br>Remarks: (carrier, no audio) Contr: (Jon-FL)                                                            |
| 6768   | V02a | Mode: AM Date/time: 29-4-2008, 0700 UTC<br>Remarks: A 43223 10572 38273 Contr: (Jon-FL)                                                            |
| 6768.0 | M08a | Mode: MCW Date/time: Mon 14-4-2008, 0400 UTC<br>Remarks: 5-fig cut numbers 8272 17423 20321 Contr: (Westli)                                        |
| 6768.0 | M08a | Mode: MCW Date/time: Mon 21-4-2008, 0400 UTC<br>Remarks: 5-fig cut numbers Contr: (Westli)                                                         |
| 6768.0 | V02a | Mode: AM Date/time: Sat 26-4-2008, 0100 UTC<br>Remarks: SSYL 5-fig atencion 71451 56202 28583<br>Contr: (Westli)                                   |
| 6785   | M08a | Mode: CW Date/time: 7-4-2008, 1900 UTC<br>Remarks: ID xxxxx 07771 46773 (in progress, missed callup) Contr: (Jon-FL)                               |

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| 6785   | M08a | Mode: CW Date/time: 10-4-2008, 1900 UTC<br>Remarks: Contr: (Jon-FL)                                                 |
| 6785   | M08a | Mode: CW Date/time: 18-4-2008, 1900 UTC<br>Remarks: ID 91681 93371 81462 Contr: (Jon-FL)                            |
| 6785   | M08a | Mode: CW Date/time: 23-4-2008, 1900 UTC<br>Remarks: ID 00391 48251 47161 Contr: (Jon-FL)                            |
| 6785   | M08a | Mode: CW Date/time: 30-4-2008, 1900 UTC<br>Remarks: ID xxxxx 85481 05482 (RX error) Contr: (Jon-FL)                 |
| 6786   | V02a | Mode: AM Date/time: 8-4-2008, 0700 UTC<br>Remarks: A xxxxx 27467 66025 (in progress, missed callup) Contr: (Jon-FL) |
| 6786   | V02a | Mode: AM Date/time: 10-4-2008, 0700 UTC<br>Remarks: A 46351 84747 72148 Contr: (Jon-FL)                             |
| 6786   | V02a | Mode: AM Date/time: 17-4-2008, 0739 UTC<br>Remarks: 5F msgs Contr: (TS)                                             |
| 6786   | V02a | Mode: AM Date/time: 20-4-2008, 0700 UTC<br>Remarks: (weak) Contr: (Jon-FL)                                          |
| 6786   | V02a | Mode: AM Date/time: 22-4-2008, 0700 UTC<br>Remarks: A 32663 27652 32682 Contr: (Jon-FL)                             |
| 6786   | V02a | Mode: AM Date/time: 27-4-2008, 0700 UTC<br>Remarks: A 76741 36803 35761 Contr: (Jon-FL)                             |
| 6786.0 | V02a | Mode: AM Date/time: Tue 1-4-2008, 0600 UTC<br>Remarks: SSYL 5-fig atencion 10254 21114 44053<br>Contr: (Westli)     |
| 6786.0 | V02a | Mode: AM Date/time: Tue 1-4-2008, 0700 UTC<br>Remarks: A 10254 21114 44053 (YL/SS) Contr: (MS)                      |
| 6786.0 | V02a | Mode: AM Date/time: Thu 3-4-2008, 0700 UTC<br>Remarks: A 58330 26555 77183 (YL/SS) Contr: (MS)                      |
| 6786.0 | V02a | Mode: AM Date/time: Tue 8-4-2008, 0700 UTC<br>Remarks: A 15778 27467 66025 (YL/SS) Contr: (MS)                      |
| 6786.0 | V02a | Mode: AM Date/time: Tue 8-4-2008, 0700 UTC<br>Remarks: 15778 29461 66025 Contr: (Westli)                            |
| 6786.0 | V02a | Mode: AM Date/time: Thu 10-4-2008, 0700 UTC<br>Remarks: A 46351 84747 72148 (YL/SS) Contr: (MS)                     |
| 6786.0 | V02a | Mode: AM Date/time: Tue 15-4-2008, 0700 UTC<br>Remarks: A 76852 40443 46033 (YL/SS) Contr: (MS)                     |
| 6786.0 | V02a | Mode: AM Date/time: Tue 15-4-2008, 0700 UTC<br>Remarks: SSYL 5-fig atencion 76852 40443 46033<br>Contr: (Westli)    |
| 6786.0 | V02a | Mode: AM Date/time: Thu 17-4-2008, 0700 UTC<br>Remarks: A 24453 68281 04602 (YL/SS) Contr: (MS)                     |
| 6786.0 | V02a | Mode: AM Date/time: Tue 22-4-2008, 0700 UTC<br>Remarks: SSYL 5-fig atencion 32663 27652 32682<br>Contr: (Westli)    |
| 6786.0 | V02a | Mode: AM Date/time: Tue 22-4-2008, 0700 UTC<br>Remarks: A 32663 27652 32682 (YL/SS) Contr: (MS)                     |
| 6786.0 | V02a | Mode: AM Date/time: Thu 24-4-2008, 0700 UTC                                                                         |

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|        |      | Remarks: A 71431 87431 34561 (YL/SS) Contr: (MS)                                                                  |
| 6786.0 | V02a | Mode: AM Date/time: Thu 24-4-2008, 0700 UTC<br>Remarks: SSYL 5-fig atencion 71431 874.. 34561<br>Contr: (Westli)  |
| 6786.0 | V02a | Mode: AM Date/time: Mon 28-4-2008, 0700 UTC<br>Remarks: A 43223 10572 38273 (YL/SS.) Contr: (MS)                  |
| 6786.0 | V02a | Mode: AM Date/time: Tue 29-4-2008, 0700 UTC<br>Remarks: SSYL 5-fig atencion 43223 10572 38273<br>Contr: (Westli)  |
| 6788.0 | M51  | Mode: CW Date/time: 14-4-2008, 0545 UTC<br>Remarks: //6976//6923,5 khz Contr: (BCI)                               |
| 6795.0 | E06  | Mode: AM Date/time: 16-4-2008, 1915 UTC<br>Remarks: 842:0 Contr: (HFD)                                            |
| 6810   | S06  | Mode: AM Date/time: 14-4-2008, 0900 UTC<br>Remarks: "480" 735 40 - repeat Contr: (RiN)                            |
| 6823.5 | M42  | Mode: Crowd36 Date/time: 17-4-2008, 1744 UTC<br>Remarks: DOSC Contr: (BCI)                                        |
| 6830   | S06  | Mode: AM Date/time: 14-4-2008, 1610 UTC<br>Remarks: 176 890 5 31364 80671 76397 35557 77914<br>890 5 Contr: (MUK) |
| 6835.0 | M51  | Mode: CW Date/time: 14-4-2008, 1615 UTC<br>Remarks: //7586 Contr: (BCI)                                           |
| 6840   | E10  | Mode: AM Date/time: 22-4-2008, 0100 UTC<br>Remarks: EZI Contr: (DS)                                               |
| 6840   | E10  | Mode: AM Date/time: 22-4-2008, 0300 UTC<br>Remarks: EZI Contr: (DS)                                               |
| 6840   | E10  | Mode: AM Date/time: 22-4-2008, 0300 UTC<br>Remarks: EZI Contr: (DS)                                               |
| 6840   | E10  | Mode: AM Date/time: 22-4-2008, 0330 UTC<br>Remarks: EZI Contr: (DS)                                               |
| 6840   | E10  | Mode: AM Date/time: 26-4-2008, 2204 UTC<br>Remarks: EZI msg grp 93 Contr: (SW2)                                   |
| 6840   | E10  | Mode: AM Date/time: 29-4-2008, 1702 UTC<br>Remarks: EZI2 Contr: (SW2)                                             |
| 6840   | E10  | Mode: AM Date/time: 29-4-2008, 1820 UTC<br>Remarks: EZI H3e 1820z 2msg msg 1 grp 54 [DGART]<br>msg Contr: (SW2)   |
| 6840.0 | E10  | Mode: AM Date/time: 2-4-2008, 2241 UTC<br>Remarks: EZI msg grp 59 [XWEYN] Contr: (SW2)                            |
| 6840.0 | E10  | Mode: USB Date/time: Thu 10-4-2008, 0100 UTC<br>Remarks: EZI w/ msg, weak signal Contr: (ANOH)                    |
| 6840.0 | E10  | Mode: USB Date/time: Thu 10-4-2008, 0130 UTC<br>Remarks: EZI2 Contr: (ANOH)                                       |
| 6840.0 | E10  | Mode: USB Date/time: Wed 16-4-2008, 2330 UTC<br>Remarks: EZI2 Contr: (ANOH)                                       |
| 6840.0 | E10  | Mode: USB Date/time: Fri 18-4-2008, 2155 UTC<br>Remarks: Very weak signal,EE/YL Contr: (EC)                       |
| 6840.0 | E10  | Mode: USB Date/time: Sat 19-4-2008, 0100 UTC                                                                      |



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|        |      | Remarks: EZI w/ msg, too weak for complete copy<br>Contr: (ANOH)                                                                   |
| 6840.0 | E10  | Mode: USB Date/time: Sat 19-4-2008, 0130 UTC<br>Remarks: EZI1, no message Contr: (ANOH)                                            |
| 6840.0 | E10  | Mode: USB Date/time: Mon 21-4-2008, 0300 UTC<br>Remarks: EZI, Long msg for G108, 70+ 5FGs Contr:<br>(ANOH)                         |
| 6840.0 | E10  | Mode: USB Date/time: Mon 21-4-2008, 0330 UTC<br>Remarks: EZI2 Contr: (ANOH)                                                        |
| 6840.0 | E10  | Mode: USB Date/time: Tue 22-4-2008, 0300 UTC<br>Remarks: EZI, Long msg for Group 108 Contr: (ANOH)                                 |
| 6840.0 | E10  | Mode: USB Date/time: Tue 22-4-2008, 0330 UTC<br>Remarks: EZI, Short msg for Group 10 Contr: (ANOH)                                 |
| 6840.0 | M51  | Mode: CW Date/time: 17-4-2008, 0538 UTC<br>Remarks: = NR 24 A 17 17:46:48 1980 BT DDNQL .....<br>Contr: (BCI)                      |
| 6851   | M51  | Mode: CW Date/time: 21-4-2008, 0747 UTC<br>Remarks: = NR 25 A 21 09:59:31 1980 = ZWBKK<br>TDXLU Contr: (BCI)                       |
| 6854   | M08a | Mode: CW Date/time: 10-4-2008, 2200 UTC<br>Remarks: ID 30473 66952 82211 Contr: (Jon-FL)                                           |
| 6854   | M08a | Mode: CW Date/time: 16-4-2008, 2200 UTC<br>Remarks: ID 54741 59501 74402 Contr: (Jon-FL)                                           |
| 6854   | M08a | Mode: CW Date/time: 17-4-2008, 2200 UTC<br>Remarks: ID 08883 30401 07251 Contr: (Jon-FL)                                           |
| 6854   | M08a | Mode: CW Date/time: 23-4-2008, 2200 UTC<br>Remarks: ID 22202 16152 18623 (weaker M08a mixed)<br>Contr: (Jon-FL)                    |
| 6854   | M08a | Mode: CW Date/time: 24-4-2008, 2200 UTC<br>Remarks: ID 27703 54572 02273 Contr: (Jon-FL)                                           |
| 6854   | M08a | Mode: CW Date/time: 30-4-2008, 2200 UTC<br>Remarks: ID 28251 34152 41353 Contr: (Jon-FL)                                           |
| 6854.0 | M08a | Mode: CW Date/time: Wed 23-4-2008, 2200 UTC<br>Remarks: ID 22203 16150 18623 (Very weak. Not<br>positive on addressees Contr: (MS) |
| 6855   | V02a | Mode: AM Date/time: 1-4-2008, 2100 UTC<br>Remarks: A 78130 54078 41464 (background voices)<br>Contr: (Jon-FL)                      |
| 6855   | V02a | Mode: AM Date/time: 2-4-2008, 2100 UTC<br>Remarks: A 30728 88583 50177 Contr: (Jon-FL)                                             |
| 6855   | V02a | Mode: AM Date/time: 3-4-2008, 2100 UTC<br>Remarks: A 78531 25361 08460 (RHC SS crosstalk)<br>Contr: (Jon-FL)                       |
| 6855   | V02a | Mode: AM Date/time: 5-4-2008, 2100 UTC<br>Remarks: A 50114 06150 74451 Contr: (Jon-FL)                                             |
| 6855   | V02a | Mode: AM Date/time: 6-4-2008, 2100 UTC<br>Remarks: A 06891 60256 35624 Contr: (Jon-FL)                                             |
| 6855   | V02a | Mode: AM Date/time: 7-4-2008, 0300 UTC                                                                                             |

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|      |      | Remarks: A 50476 34680 67712 (background voices)<br>Contr: (Jon-FL)                                               |
| 6855 | V02a | Mode: AM Date/time: 7-4-2008, 2100 UTC<br>Remarks: A 62881 40601 03283 (uno, RHC in background) Contr: (Jon-FL)   |
| 6855 | V02a | Mode: AM Date/time: 8-4-2008, 2100 UTC<br>Remarks: A 54581 42483 63631 (RHC in background) Contr: (Jon-FL)        |
| 6855 | V02a | Mode: AM Date/time: 9-4-2008, 2100 UTC<br>Remarks: A 66414 12355 05215 (RHC, and heckler) Contr: (Jon-FL)         |
| 6855 | V02a | Mode: AM Date/time: 10-4-2008, 2100 UTC<br>Remarks: A 03911 46000 68660 (uno, heckler) Contr: (Jon-FL)            |
| 6855 | V02a | Mode: AM Date/time: 11-4-2008, 2100 UTC<br>Remarks: A xxxxx 35486 47600 (late start, no callup) Contr: (Jon-FL)   |
| 6855 | V02a | Mode: AM Date/time: 12-4-2008, 2100 UTC<br>Remarks: A 10513 60803 68441 (RHC crosstalk) Contr: (Jon-FL)           |
| 6855 | V02a | Mode: AM Date/time: 13-4-2008, 2100 UTC<br>Remarks: A 54-71 23742 85413 (dropout) Contr: (Jon-FL)                 |
| 6855 | V02a | Mode: AM Date/time: 14-4-2008, 2100 UTC<br>Remarks: A 65533 28041 43651 Contr: (Jon-FL)                           |
| 6855 | V02a | Mode: AM Date/time: 15-4-2008, 2100 UTC<br>Remarks: A 10051 72301 10342 Contr: (Jon-FL)                           |
| 6855 | V02a | Mode: AM Date/time: 16-4-2008, 2100 UTC<br>Remarks: A 73361 54341 47313 Contr: (Jon-FL)                           |
| 6855 | V02a | Mode: AM Date/time: 16-4-2008, 2105 UTC<br>Remarks: 5F msgs Contr: (TS)                                           |
| 6855 | V02a | Mode: AM Date/time: 17-4-2008, 2100 UTC<br>Remarks: A 73852 16313 64082 (RHC snippet mixed) Contr: (Jon-FL)       |
| 6855 | V02a | Mode: AM Date/time: 18-4-2008, 2100 UTC<br>Remarks: A 52582 73572 66322 Contr: (Jon-FL)                           |
| 6855 | V02a | Mode: AM Date/time: 19-4-2008, 2100 UTC<br>Remarks: A 67441 55512 11763 (dropout, RHC background) Contr: (Jon-FL) |
| 6855 | V02a | Mode: AM Date/time: 20-4-2008, 2100 UTC<br>Remarks: A 07212 57671 40662 (RHC background) Contr: (Jon-FL)          |
| 6855 | V02a | Mode: AM Date/time: 21-4-2008, 2100 UTC<br>Remarks: A xxxxx 80621 80362 (late start, no callup) Contr: (Jon-FL)   |
| 6855 | V02a | Mode: AM Date/time: 22-4-2008, 2100 UTC<br>Remarks: A xxxxx 23151 88333 (late start, no callup) Contr: (Jon-FL)   |

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| 6855   | V02a | Mode: AM Date/time: 23-4-2008, 2100 UTC<br>Remarks: A xxxxx 78272 20501 (late start, no callup,<br>RHC background) Contr: (Jon-FL)  |
| 6855   | V02a | Mode: AM Date/time: 24-4-2008, 2100 UTC<br>Remarks: A 05431 32232 20311 (RHC background)<br>Contr: (Jon-FL)                         |
| 6855   | V02a | Mode: AM Date/time: 25-4-2008, 2100 UTC<br>Remarks: A 06891 77731 58721 dropout) Contr: (Jon-<br>FL)                                |
| 6855   | V02a | Mode: AM Date/time: 26-4-2008, 2100 UTC<br>Remarks: A 20212 75261 41732 (RHC background)<br>Contr: (Jon-FL)                         |
| 6855   | V02a | Mode: AM Date/time: 27-4-2008, 2100 UTC<br>Remarks: A 81613 54302 24162 (RHC background)<br>Contr: (Jon-FL)                         |
| 6855   | V02a | Mode: AM Date/time: 28-4-2008, 0300 UTC<br>Remarks: A 38712 07811 35533 Contr: (Jon-FL)                                             |
| 6855   | V02a | Mode: AM Date/time: 29-4-2008, 2100 UTC<br>Remarks: A 72343 73183 02873 (RHC background)<br>Contr: (Jon-FL)                         |
| 6855   | V02a | Mode: AM Date/time: 30-4-2008, 2100 UTC<br>Remarks: A 21032 33511 30661 Contr: (Jon-FL)                                             |
| 6855.0 | V02a | Mode: AM Date/time: Tue 1-4-2008, 2100 UTC<br>Remarks: 2059z strong carrier up, 2100z A 78130<br>54078 41464, SS/YL 5F Contr: (TW2) |
| 6855.0 | V02a | Mode: AM Date/time: Tue 1-4-2008, 2100 UTC<br>Remarks: A 78130 54078 41464 (YL/SS) Contr: (MS)                                      |
| 6855.0 | V02a | Mode: AM Date/time: Wed 2-4-2008, 2100 UTC<br>Remarks: A 30728 88583 50177 (YL/SS) Contr: (MS)                                      |
| 6855.0 | V02a | Mode: AM Date/time: Thu 3-4-2008, 2100 UTC<br>Remarks: A 78531 25361 08460 (YL/SS) Contr: (MS)                                      |
| 6855.0 | V02a | Mode: AM Date/time: Sat 5-4-2008, 2100 UTC<br>Remarks: A 50114 06150 74451 (YL/SS.) Contr: (MS)                                     |
| 6855.0 | V02a | Mode: AM Date/time: Mon 7-4-2008, 0300 UTC<br>Remarks: SSYL 5-fig atencion 50476 34680 68712<br>Contr: (Westli)                     |
| 6855.0 | V02a | Mode: AM Date/time: Mon 7-4-2008, 2100 UTC<br>Remarks: A 62881 40601 03283 (YL/SS) Contr: (MS)                                      |
| 6855.0 | V02a | Mode: AM Date/time: Tue 8-4-2008, 2100 UTC<br>Remarks: A ..... 42483 63631 (YL/SS. Heavy QRM<br>blocking.) Contr: (MS)              |
| 6855.0 | V02a | Mode: AM Date/time: Wed 9-4-2008, 2100 UTC<br>Remarks: A 66414 12355 05215 (YL/SS) Contr: (MS)                                      |
| 6855.0 | V02a | Mode: AM Date/time: Thu 10-4-2008, 2100 UTC<br>Remarks: A 03911 46000 68660 (YL/SS) Contr: (MS)                                     |
| 6855.0 | V02a | Mode: AM Date/time: Sat 12-4-2008, 2100 UTC<br>Remarks: A 10513 60803 68441 (YL/SS) Contr: (MS)                                     |
| 6855.0 | V02a | Mode: AM Date/time: Sun 13-4-2008, 2100 UTC                                                                                         |

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|        |      | Remarks: A 54071 23742 85413 (YL/SS) Contr: (MS)                                                                         |
| 6855.0 | V02a | Mode: AM Date/time: Mon 14-4-2008, 0300 UTC<br>Remarks: SSYL 5-fig atencion 38711 36111 34352<br>Contr: (Westli)         |
| 6855.0 | V02a | Mode: AM Date/time: Wed 16-4-2008, 2100 UTC<br>Remarks: A 73361 54341 47313 (YL/SS) Contr: (MS)                          |
| 6855.0 | V02a | Mode: AM Date/time: Thu 17-4-2008, 2100 UTC<br>Remarks: A 7.852 16313 64082 (YL/SS. Buried under heavy QRM.) Contr: (MS) |
| 6855.0 | V02a | Mode: AM Date/time: Mon 21-4-2008, 2100 UTC<br>Remarks: A ..... 80621 80362 (YL/SS)(Late) Contr: (MS)                    |
| 6855.0 | V02a | Mode: USB Date/time: Tue 22-4-2008, 2100 UTC<br>Remarks: (Buried under very heavy QRM. No copy. YL/SS) Contr: (MS)       |
| 6855.0 | V02a | Mode: AM Date/time: Wed 23-4-2008, 0021 UTC<br>Remarks: Started abruptly at 2 minutes after the hour<br>Contr: (FAN)     |
| 6855.0 | V02a | Mode: AM Date/time: Wed 23-4-2008, 2100 UTC<br>Remarks: A 05041 ..... (Came up late at 2103z.)<br>Contr: (MS)            |
| 6855.0 | V02a | Mode: AM Date/time: Fri 25-4-2008, 2100 UTC<br>Remarks: A 06891 77731 58721 (YL/SS) Contr: (MS)                          |
| 6855.0 | V02a | Mode: AM Date/time: Sat 26-4-2008, 0021 UTC<br>Remarks: Noisy and fading, but readable Contr: (FAN)                      |
| 6855.0 | V02a | Mode: AM Date/time: Sun 27-4-2008, 2100 UTC<br>Remarks: A 81613 54302 24162 (YL/SS) Contr: (MS)                          |
| 6855.0 | V02a | Mode: AM Date/time: Mon 28-4-2008, 2100 UTC<br>Remarks: A 72343 73183 02873 (YL/SS.) Contr: (MS)                         |
| 6855.0 | V02a | Mode: AM Date/time: Wed 30-4-2008, 2100 UTC<br>Remarks: A 21.32 ..... ..661 (Heavy QRM blocking)<br>Contr: (MS)          |
| 6857.5 | M51  | Mode: CW Date/time: 16-4-2008, 0602 UTC<br>Remarks: = NR 82 A 16 18:20:21 1980 BT QRSFC<br>SCBQU FT Contr: (BCI)         |
| 6866   | M08a | Mode: CW Date/time: 7-4-2008, 1400 UTC<br>Remarks: ID 66721 14042 73342 Contr: (Jon-FL)                                  |
| 6867   | V02a | Mode: AM Date/time: 10-4-2008, 1600 UTC<br>Remarks: A 74365 26313 37616 (weak M08a mixed)<br>Contr: (Jon-FL)             |
| 6867.0 | M08a | Mode: CW Date/time: Mon 21-4-2008, 1400 UTC<br>Remarks: 5-fig cut numbers weak Contr: (Westli)                           |
| 6867.0 | V02a | Mode: AM Date/time: Wed 16-4-2008, 1600 UTC<br>Remarks: JIP 1612 SS/YL 5FGs QSN/QSB Contr: (TW2)                         |
| 6889.5 | M51  | Mode: CW Date/time: 2-4-2008, 0627 UTC<br>Remarks: //6930 "NR 05 A 02 19:42:22 1980 BT"<br>Contr: (BCI)                  |

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| 6904   | M12  | Mode: CW Date/time: Mon 21-4-2008, 1940 UTC<br>Remarks: 257 1 9830 63 Contr: (FN)                                                |
| 6923.5 | M51  | Mode: CW Date/time: 14-4-2008, 0535 UTC<br>Remarks: //6976,0 //6788.0 = NR 70 A 11 17:48:34 1980 Contr: (BCI)                    |
| 6930.0 | G06  | Mode: AM Date/time: 7-4-2008, 2000 UTC<br>Remarks: 308:0 Contr: (HFD)                                                            |
| 6930.0 | M51  | Mode: CW Date/time: 2-4-2008, 0627 UTC<br>Remarks: //6889,5 Contr: (BCI)                                                         |
| 6932   | M08a | Mode: CW Date/time: 2-4-2008, 2100 UTC<br>Remarks: ID xxxxx xxxxx 88277 (in progress, missed callup) Contr: (Jon-FL)             |
| 6932   | M08a | Mode: CW Date/time: 3-4-2008, 2100 UTC<br>Remarks: ID 26668 93821 66310 Contr: (Jon-FL)                                          |
| 6932   | M08a | Mode: CW Date/time: 10-4-2008, 2100 UTC<br>Remarks: ID 30473 66952 82211 Contr: (Jon-FL)                                         |
| 6932   | M08a | Mode: CW Date/time: 16-4-2008, 2100 UTC<br>Remarks: ID 54741 59501 74402 Contr: (Jon-FL)                                         |
| 6932   | M08a | Mode: CW Date/time: 16-4-2008, 2108 UTC<br>Remarks: 5F msgs Contr: (TS)                                                          |
| 6932   | M08a | Mode: CW Date/time: 17-4-2008, 2100 UTC<br>Remarks: ID xxxxx 30401 07251 (late start, no callup) Contr: (Jon-FL)                 |
| 6932   | M08a | Mode: CW Date/time: 23-4-2008, 2100 UTC<br>Remarks: (very late start, no IDs) Contr: (Jon-FL)                                    |
| 6932   | M08a | Mode: CW Date/time: 24-4-2008, 2100 UTC<br>Remarks: ID xxxxx 54572 02273 (in progress, missed callup) Contr: (Jon-FL)            |
| 6932.0 | M08a | Mode: CW Date/time: Wed 2-4-2008, 2100 UTC<br>Remarks: ID 82731 37683 88277 Contr: (MS)                                          |
| 6934.5 | M51  | Mode: CW Date/time: 17-4-2008, 0603 UTC<br>Remarks: = NR 29 A 17 18:11:39 1980 = ALYNT Contr: (BCI)                              |
| 6940   | G11  | Mode: USB Date/time: 2-4-2008, 0730 UTC<br>Remarks: 508/00 Contr: (RiN)                                                          |
| 6940   | G11  | Mode: USB Date/time: 16-4-2008, 0730 UTC<br>Remarks: 508/00 Contr: (MUK)                                                         |
| 6940   | G11  | Mode: USB Date/time: Wed 16-4-2008, 0730 UTC<br>Remarks: 508/00 Contr: (FN)                                                      |
| 6942.5 | M51  | Mode: CW Date/time: 15-4-2008, 2135 UTC<br>Remarks: = NR 88 A 15 23:36:08 1980 = ZWMRW MFAOZ Contr: (BCI)                        |
| 6958   | X06  | Mode: AM Date/time: 28-4-2008, 1949 UTC<br>Remarks: Mazielka. Sequence: 154632 Contr: (MUK)                                      |
| 6959.0 | E03  | Mode: USB Date/time: Fri 18-4-2008, 2200 UTC<br>Remarks: Fairly good signal.Lincolnshire Poacher tune came in clear. Contr: (EC) |
| 6959.0 | E03  | Mode: USB Date/time: Fri 25-4-2008, 2200 UTC                                                                                     |

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|        |     | Remarks: Lincolnshire Poacher loud and clear this evening. Contr: (EC)                                       |
| 6962   | X06 | Mode: AM Date/time: 28-4-2008, 1949 UTC<br>Remarks: Mazielka. Sequence: 164532 Contr: (MUK)                  |
| 6963.1 | M51 | Mode: CW Date/time: 17-4-2008, 0131 UTC<br>Remarks: French mil. CW training Contr: (Jon-FL)                  |
| 6964.0 | M51 | Mode: CW Date/time: 3-4-2008, 0643 UTC<br>Remarks: ip Contr: (BCI)                                           |
| 6971.0 | XPA | Mode: AM Date/time: 1-4-2008, 2020 UTC<br>Remarks: msg Contr: (HFD)                                          |
| 6976.0 | M51 | Mode: CW Date/time: 14-4-2008, 0535 UTC<br>Remarks: //6923,5//6788 khz = NR 70 A 11 17:48:34 19 Contr: (BCI) |
| 6977   | M03 | Mode: CW Date/time: Fri 11-4-2008, 1415 UTC<br>Remarks: ---/34 == 62380 17662 ... Contr: (FN)                |
| 6977   | M03 | Mode: CW Date/time: Fri 25-4-2008, 1415 UTC<br>Remarks: 406/35 70522 27035 ... Contr: (FN)                   |
| 6980.0 | E06 | Mode: AM Date/time: 13-4-2008, 1930 UTC<br>Remarks: 690:0 Contr: (HFD)                                       |
| 6981   | E06 | Mode: AM Date/time: 8-4-2008, 2200 UTC<br>Remarks: 295 731 82 Contr: (MUK)                                   |
| 6981.0 | M51 | Mode: CW Date/time: 16-4-2008, 0613 UTC<br>Remarks: = NR 81 A 16 08:14:16 1980 = Contr: (BCI)                |
| 6983.0 | M51 | Mode: CW Date/time: 3-4-2008, 0638 UTC<br>Remarks: "NR 32 A 03 08:40:27 1980 BT RCJVH " Contr: (BCI)         |
| 7038.7 | MX  | Mode: CW Date/time: 2-4-2008, 1424 UTC<br>Remarks: Cluster beacon "D" Contr: (SW2)                           |
| 7038.7 | MX  | Mode: CW Date/time: 16-4-2008, 1838 UTC<br>Remarks: Cluster beacon "D" Contr: (AB)                           |
| 7038.7 | MX  | Mode: CW Date/time: 17-4-2008, 1732 UTC<br>Remarks: Cluster beacon "D" Contr: (AB)                           |
| 7038.7 | MX  | Mode: CW Date/time: 18-4-2008, 1638 UTC<br>Remarks: Cluster beacon "D" Contr: (AB)                           |
| 7038.9 | MX  | Mode: CW Date/time: 2-4-2008, 1425 UTC<br>Remarks: Cluster beacon "S" Contr: (SW2)                           |
| 7038.9 | MX  | Mode: CW Date/time: 17-4-2008, 1732 UTC<br>Remarks: Cluster beacon "S" Contr: (AB)                           |
| 7038.9 | MX  | Mode: CW Date/time: 18-4-2008, 1638 UTC<br>Remarks: Cluster beacon "S" Contr: (AB)                           |
| 7039   | MX  | Mode: CW Date/time: 16-4-2008, 1838 UTC<br>Remarks: Cluster beacon "C" Contr: (AB)                           |
| 7039.0 | MX  | Mode: CW Date/time: 2-4-2008, 1423 UTC<br>Remarks: Cluster beacon "C" Contr: (SW2)                           |
| 7039.0 | MX  | Mode: CW Date/time: 17-4-2008, 1732 UTC<br>Remarks: Cluster beacon "C" Contr: (AB)                           |
| 7039.0 | MX  | Mode: CW Date/time: 18-4-2008, 1638 UTC<br>Remarks: Cluster beacon "C" Contr: (AB)                           |

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| 7151.0 | M08a | Mode: CW Date/time: Mon 7-4-2008, 1300 UTC<br>Remarks: 5-fig cut numbers 75573 57302 16123<br>Contr: (Westli)                                  |
| 7335   | S06  | Mode: AM Date/time: 2-4-2008, 0830 UTC<br>Remarks: "745" 801 6 groups Contr: (RiN)                                                             |
| 7335   | S06  | Mode: AM Date/time: Wed 16-4-2008, 0830 UTC<br>Remarks: 745 801 6 Contr: (FN)                                                                  |
| 7335   | S06  | Mode: AM Date/time: 16-4-2008, 0830 UTC<br>Remarks: 745 801 6 59446 06558 19885 16624 99455<br>45325 Contr: (MUK)                              |
| 7353.0 | M08a | Mode: CW Date/time: Mon 7-4-2008, 1400 UTC<br>Remarks: 5-fig cut numbers 57302 16123 75573<br>Contr: (Westli)                                  |
| 7377   | S11a | Mode: USB Date/time: 16-4-2008, 0900 UTC<br>Remarks: 214/00 Contr: (MUK)                                                                       |
| 7385.0 | S06  | Mode: AM Date/time: 24-4-2008, 1240 UTC<br>Remarks: 314-587/6=44167 Contr: (HFD)                                                               |
| 7415   | M51  | Mode: CW Date/time: 21-4-2008, 0747 UTC<br>Remarks: AR FQ DE FAV22 VA Contr: (BCI)                                                             |
| 7419.6 | M51  | Mode: CW Date/time: 16-4-2008, 0741 UTC<br>Remarks: = NR A A 16 09:48:12 1980 = VIYWL<br>WWFYN Contr: (BCI)                                    |
| 7426.5 | M51  | Mode: CW Date/time: 23-4-2008, 0752 UTC<br>Remarks: = NR 73 A 23 09:53:32 1980 = ITKKI ISHKQ<br>Contr: (BCI)                                   |
| 7480.0 | M08a | Mode: MCW Date/time: Mon 21-4-2008, 2200 UTC<br>Remarks: ID 18782 87443 74522 Contr: (MS)                                                      |
| 7480.0 | M08a | Mode: CW Date/time: Tue 22-4-2008, 2200 UTC<br>Remarks: (Heavy QRM blocking. No copy.) Contr: (MS)                                             |
| 7480.0 | M08a | Mode: CW Date/time: Fri 25-4-2008, 2200 UTC<br>Remarks: ID 27721 84271 05871 Contr: (MS)                                                       |
| 7480.0 | M08a | Mode: CW Date/time: Sun 27-4-2008, 2200 UTC<br>Remarks: ID 26772 78003 42083 Contr: (MS)                                                       |
| 7481   | M08a | Mode: CW Date/time: 1-4-2008, 2200 UTC<br>Remarks: ID xxxxx 17677 85301 (late start, no callup,<br>background voices 7482 LSB) Contr: (Jon-FL) |
| 7481   | M08a | Mode: CW Date/time: 1-4-2008, 2200 UTC<br>Remarks: (background voices only 7482 LSB) Contr:<br>(Jon-FL)                                        |
| 7481   | M08a | Mode: CW Date/time: 4-4-2008, 2200 UTC<br>Remarks: (Errors, no IDs) Contr: (Jon-FL)                                                            |
| 7481   | M08a | Mode: CW Date/time: 5-4-2008, 2200 UTC<br>Remarks: ID 25037 83703 25641 Contr: (Jon-FL)                                                        |
| 7481   | M08a | Mode: CW Date/time: 7-4-2008, 2200 UTC<br>Remarks: ID 35107 33034 50465 Contr: (Jon-FL)                                                        |
| 7481   | M08a | Mode: CW Date/time: 8-4-2008, 2200 UTC<br>Remarks: ID xxxxx 48213 xxxxx (late start, early end)<br>Contr: (Jon-FL)                             |

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| 7481   | M08a | Mode: CW Date/time: 11-4-2008, 2200 UTC<br>Remarks: ID 41743 86863 16563 Contr: (Jon-FL)                                      |
| 7481   | M08a | Mode: CW Date/time: 12-4-2008, 2200 UTC<br>Remarks: ID 33752 64062 17172 Contr: (Jon-FL)                                      |
| 7481   | M08a | Mode: CW Date/time: 13-4-2008, 2200 UTC<br>Remarks: ID 19891 03133 73731 Contr: (Jon-FL)                                      |
| 7481   | M08a | Mode: CW Date/time: 14-4-2008, 2200 UTC<br>Remarks: ID 54102 12601 36311 Contr: (Jon-FL)                                      |
| 7481   | M08a | Mode: CW Date/time: 15-4-2008, 2200 UTC<br>Remarks: ID 01282 31373 82711 Contr: (Jon-FL)                                      |
| 7481   | M08a | Mode: CW Date/time: 18-4-2008, 2200 UTC<br>Remarks: ID 17051 62563 45171 Contr: (Jon-FL)                                      |
| 7481   | M08a | Mode: CW Date/time: 19-4-2008, 2200 UTC<br>Remarks: ID 90341 32331 51752 Contr: (Jon-FL)                                      |
| 7481   | M08a | Mode: CW Date/time: 20-4-2008, 2200 UTC<br>Remarks: ID 74222 44541 51021 Contr: (Jon-FL)                                      |
| 7481   | M08a | Mode: CW Date/time: 21-4-2008, 2200 UTC<br>Remarks: ID 18782 87443 74522 Contr: (Jon-FL)                                      |
| 7481   | M08a | Mode: CW Date/time: 22-4-2008, 2200 UTC<br>Remarks: ID xxxxx 93821 74531 (late start, no callup)<br>Contr: (Jon-FL)           |
| 7481   | M08a | Mode: CW Date/time: 25-4-2008, 2200 UTC<br>Remarks: ID 27021 84271 05871 Contr: (Jon-FL)                                      |
| 7481   | M08a | Mode: CW Date/time: 26-4-2008, 2200 UTC<br>Remarks: ID 48081 85021 27081 Contr: (Jon-FL)                                      |
| 7481   | M08a | Mode: CW Date/time: 27-4-2008, 2200 UTC<br>Remarks: ID 26772 75003 42083 (early end) Contr:<br>(Jon-FL)                       |
| 7481   | M08a | Mode: CW Date/time: 28-4-2008, 2200 UTC<br>Remarks: ID 57032 18023 27842 Contr: (Jon-FL)                                      |
| 7481.0 | M08a | Mode: CW Date/time: Sat 5-4-2008, 2200 UTC<br>Remarks: (Heavy QRM blocking. Uncopiable.) Contr:<br>(MS)                       |
| 7481.0 | M08a | Mode: CW Date/time: Mon 7-4-2008, 2200 UTC<br>Remarks: ID 35107 33034 50465 (Very weak signal.<br>Contr: (MS)                 |
| 7481.0 | M08a | Mode: CW Date/time: Tue 8-4-2008, 2206 UTC<br>Remarks: ID ..... 48213 51451 (Late start.) Contr: (MS)                         |
| 7481.0 | M08a | Mode: CW Date/time: Sat 12-4-2008, 2200 UTC<br>Remarks: ID 33752 64062 17... (Heavy fades, missed<br>last callup) Contr: (MS) |
| 7481.0 | M08a | Mode: CW Date/time: Sun 13-4-2008, 2203 UTC<br>Remarks: ID 19891 03133 73731 (Moved here from<br>7974m at 2203z) Contr: (MS)  |
| 7481.0 | M08a | Mode: CW Date/time: Mon 14-4-2008, 2200 UTC<br>Remarks: ID 54102 12601 36311 Contr: (MS)                                      |
| 7519   | E07  | Mode: AM Date/time: 14-4-2008, 2040 UTC<br>Remarks: "105" repeat Contr: (RiN)                                                 |



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| 7519   | M08a | Mode: CW Date/time: 4-4-2008, 2200 UTC<br>Remarks: (Errors) Contr: (Jon-FL)                                                         |
| 7519   | M08a | Mode: CW Date/time: 7-4-2008, 2200 UTC<br>Remarks: ID 23027 37103 42632 (fast version) Contr: (Jon-FL)                              |
| 7519   | M08a | Mode: CW Date/time: 16-4-2008, 2200 UTC<br>Remarks: ID 34062 26551 30441 (12345 67890 then M08a, fast version) Contr: (Jon-FL)      |
| 7519   | M08a | Mode: CW Date/time: 18-4-2008, 2200 UTC<br>Remarks: ID 11931 11162 27231 (fast version) Contr: (Jon-FL)                             |
| 7519   | M08a | Mode: CW Date/time: 21-4-2008, 2200 UTC<br>Remarks: ID xxxxx xxxxx 42043 (in progress, missed callup, fast version) Contr: (Jon-FL) |
| 7519   | M08a | Mode: CW Date/time: 30-4-2008, 2200 UTC<br>Remarks: ID xxxxx 83131 38151 (RX error, fast version) Contr: (Jon-FL)                   |
| 7519.0 | E07  | Mode: AM Date/time: 21-4-2008, 2040 UTC<br>Remarks: only carrier Contr: (HFD)                                                       |
| 7519.0 | M08a | Mode: CW Date/time: Fri 4-4-2008, 2200 UTC<br>Remarks: ID 06535 88571 41561 (Expected this repeat to be on 7481m.) Contr: (MS)      |
| 7519.0 | M08a | Mode: CW Date/time: Mon 7-4-2008, 1300 UTC<br>Remarks: 5-fig cut numbers 66721 14042 73342 Contr: (Westli)                          |
| 7519.0 | M08a | Mode: CW Date/time: Mon 7-4-2008, 2200 UTC<br>Remarks: ID 52602 46671 57703 Contr: (MS)                                             |
| 7519.0 | M08a | Mode: CW Date/time: Wed 9-4-2008, 2200 UTC<br>Remarks: ID 75025 81878 63183 Contr: (MS)                                             |
| 7519.0 | M08a | Mode: CW Date/time: Mon 14-4-2008, 1300 UTC<br>Remarks: 5-fig cut numbers 64752 80771 07403 Contr: (Westli)                         |
| 7519.0 | M08a | Mode: CW Date/time: Wed 16-4-2008, 2200 UTC<br>Remarks: ID 34062 26551 30441 Contr: (MS)                                            |
| 7519.0 | M08a | Mode: CW Date/time: Mon 21-4-2008, 1300 UTC<br>Remarks: 5-fig cut numbers weak poss cs 57352 08181 46013 Contr: (Westli)            |
| 7519.0 | M08a | Mode: CW Date/time: Mon 21-4-2008, 2200 UTC<br>Remarks: ID 16483 68113 42043 Contr: (MS)                                            |
| 7519.0 | M08a | Mode: CW Date/time: Wed 30-4-2008, 2200 UTC<br>Remarks: ID 12111 83131 38151 Contr: (MS)                                            |
| 7519.0 | M08a | Mode: CW Date/time: Wed 30-4-2008, 2300 UTC<br>Remarks: ID 12111 83131 38151 (Expected this sked to be on 8135m. Contr: (MS)        |
| 7526   | M08a | Mode: CW Date/time: 1-4-2008, 2200 UTC<br>Remarks: ID 40813 17677 85301 (Slow, swapped at 2208z) Contr: (Jon-FL)                    |
| 7526   | M08a | Mode: CW Date/time: 1-4-2008, 2208 UTC                                                                                              |

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|        |      | Remarks: ID xxxxx 41048 60202 (fast, swapped from 7481) Contr: (Jon-FL)                                                             |
| 7526   | M08a | Mode: CW Date/time: 8-4-2008, 2200 UTC<br>Remarks: ID xxxxx xxxxx 55471 (late start, early end, fast version) Contr: (Jon-FL)       |
| 7526   | M08a | Mode: CW Date/time: 15-4-2008, 2200 UTC<br>Remarks: ID 13941 45001 76062 (fast version) Contr: (Jon-FL)                             |
| 7526   | M08a | Mode: CW Date/time: 22-4-2008, 2200 UTC<br>Remarks: ID 57873 80482 66302 (fast version, restart) Contr: (Jon-FL)                    |
| 7526.0 | E07  | Mode: AM Date/time: 3-4-2008, 2030 UTC<br>Remarks: 358:0 Contr: (HFD)                                                               |
| 7526.0 | M08a | Mode: CW Date/time: Tue 15-4-2008, 2200 UTC<br>Remarks: 5-fig cut numbers too weak to copy Contr: (Westli)                          |
| 7526.0 | M08a | Mode: CW Date/time: Tue 22-4-2008, 2200 UTC<br>Remarks: ID ..... 66302 (Came up late.) Contr: (MS)                                  |
| 7526.0 | M08a | Mode: CW Date/time: Tue 22-4-2008, 2200 UTC<br>Remarks: 22/Apr 2200 7526 cw M8a 5-fig cut numbers 74531 553.. 92... Contr: (Westli) |
| 7554   | M08a | Mode: CW Date/time: 1-4-2008, 2000 UTC<br>Remarks: ID 91681 93371 05070 Contr: (Jon-FL)                                             |
| 7554   | M08a | Mode: CW Date/time: 3-4-2008, 2000 UTC<br>Remarks: ID 36406 25082 67372 Contr: (Jon-FL)                                             |
| 7554   | M08a | Mode: CW Date/time: 7-4-2008, 2000 UTC<br>Remarks: ID 01422 70681 53081 Contr: (Jon-FL)                                             |
| 7554   | M08a | Mode: CW Date/time: 8-4-2008, 2000 UTC<br>Remarks: ID xxxxx 04122 25421 (in progress, missed callup) Contr: (Jon-FL)                |
| 7554   | M08a | Mode: CW Date/time: 10-4-2008, 2000 UTC<br>Remarks: Contr: (Jon-FL)                                                                 |
| 7554   | M08a | Mode: CW Date/time: 15-4-2008, 2000 UTC<br>Remarks: ID 12701 95921 81211 Contr: (Jon-FL)                                            |
| 7554   | M08a | Mode: CW Date/time: 16-4-2008, 2000 UTC<br>Remarks: ID 40413 07012 63401 Contr: (Jon-FL)                                            |
| 7554   | M08a | Mode: CW Date/time: 17-4-2008, 2000 UTC<br>Remarks: ID 58621 37373 03852 Contr: (Jon-FL)                                            |
| 7554   | M08a | Mode: CW Date/time: 18-4-2008, 2000 UTC<br>Remarks: ID 91681 93371 81462 Contr: (Jon-FL)                                            |
| 7554   | M08a | Mode: CW Date/time: 21-4-2008, 2000 UTC<br>Remarks: ID 10821 74131 62313 Contr: (Jon-FL)                                            |
| 7554   | M08a | Mode: CW Date/time: 22-4-2008, 2000 UTC<br>Remarks: ID xxxxx xxxxx 42033 (in progress, missed callup) Contr: (Jon-FL)               |
| 7554   | M08a | Mode: CW Date/time: 30-4-2008, 2000 UTC<br>Remarks: ID 83531 85481 05482 Contr: (Jon-FL)                                            |

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| 7554.0 | M08a | Mode: CW Date/time: Thu 10-4-2008, 2000 UTC<br>Remarks: (Too weak for copy) Contr: (MS)                              |
| 7554.0 | M08a | Mode: CW Date/time: Tue 15-4-2008, 2000 UTC<br>Remarks: (Signal too weak for copy, plus heavy fades.)<br>Contr: (MS) |
| 7554.0 | M08a | Mode: CW Date/time: Tue 22-4-2008, 2000 UTC<br>Remarks: (Too weak for copy.) Contr: (MS)                             |
| 7554.0 | M08a | Mode: CW Date/time: Fri 25-4-2008, 2000 UTC<br>Remarks: ID 41682 52072 34341 (Very weak signal)<br>Contr: (MS)       |
| 7554.0 | M08a | Mode: CW Date/time: Mon 28-4-2008, 2000 UTC<br>Remarks: (Came in late, missed calls.) Contr: (MS)                    |
| 7586.0 | M51  | Mode: CW Date/time: 14-4-2008, 1615 UTC<br>Remarks: //6835 khz = NR 88 A 14 18:31:42 1980 =<br>JQPK Contr: (BCI)     |
| 7605   | S06  | Mode: AM Date/time: 2-4-2008, 0820 UTC<br>Remarks: "471" 802 5 groups Contr: (RiN)                                   |
| 7620   | S06  | Mode: AM Date/time: 2-4-2008, 1230 UTC<br>Remarks: "967" 280 5 groups Contr: (RiN)                                   |
| 7620   | S06  | Mode: AM Date/time: Wed 16-4-2008, 1230 UTC<br>Remarks: 967 280 5 Contr: (FN)                                        |
| 7620.0 | S06  | Mode: AM Date/time: 16-4-2008, 1230 UTC<br>Remarks: 967 Contr: (HFD)                                                 |
| 7630   | S06  | Mode: AM Date/time: 14-4-2008, 2115 UTC<br>Remarks: "285" 00000 Contr: (RiN)                                         |
| 7630.0 | S06  | Mode: AM Date/time: 14-4-2008, 2115 UTC<br>Remarks: 285:0 Contr: (HFD)                                               |
| 7635.0 | E17z | Mode: USB Date/time: 12-4-2008, 0817 UTC<br>Remarks: 274-459/30=52401 Contr: (HFD)                                   |
| 7649   | XPA  | Mode: AM Date/time: Wed 16-4-2008, 0840 UTC<br>Remarks: 257 1 04731 ..... Contr: (FN)                                |
| 7680   | M08a | Mode: CW Date/time: 2-4-2008, 2000 UTC<br>Remarks: ID 95931 44300 03661 (weaker M08a mixed)<br>Contr: (Jon-FL)       |
| 7680   | M08a | Mode: CW Date/time: 4-4-2008, 1900 UTC<br>Remarks: ID 76031 00527 83467 Contr: (Jon-FL)                              |
| 7680   | M08a | Mode: CW Date/time: 9-4-2008, 1900 UTC<br>Remarks: ID xxxxx 12678 61527 (late start, no callup)<br>Contr: (Jon-FL)   |
| 7680   | M08a | Mode: CW Date/time: 21-4-2008, 1900 UTC<br>Remarks: ID 10821 74131 62313 (very early end)<br>Contr: (Jon-FL)         |
| 7680.0 | M08a | Mode: CW Date/time: Mon 21-4-2008, 1900 UTC<br>Remarks: (Too weak for copy) Contr: (MS)                              |
| 7690   | E10  | Mode: AM Date/time: 1-4-2008, 2104 UTC<br>Remarks: EZI msg grp 64 [ZHBAE] //6940 kHz Contr:<br>(SW2)                 |
| 7692.0 | E10  | Mode: AM Date/time: Sun 13-4-2008, 1600 UTC                                                                          |

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|        |      | Remarks: Ident: EZI2 -- Letter Station, S7 to S9 Contr: (DL3ZY)                                                  |
| 7772   | S11b | Mode: USB Date/time: Mon 14-4-2008, 0900 UTC<br>Remarks: 974/31 77777 77777 77297... Contr: (FN)                 |
| 7772.0 | S11a | Mode: USB Date/time: 14-4-2008, 0900 UTC<br>Remarks: 974/31=77777 77777 77297 Contr: (HFD)                       |
| 7795.0 | S06  | Mode: AM Date/time: 25-4-2008, 0600 UTC<br>Remarks: 196 Contr: (HFD)                                             |
| 7798   | E11  | Mode: USB Date/time: 2-4-2008, 0915 UTC<br>Remarks: 221/00 Contr: (RiN)                                          |
| 7798   | E11  | Mode: USB Date/time: Tue 15-4-2008, 0915 UTC<br>Remarks: 221/00 Contr: (FN)                                      |
| 7798   | E11  | Mode: USB Date/time: Wed 16-4-2008, 0915 UTC<br>Remarks: 221/00 Contr: (FN)                                      |
| 7798   | E11  | Mode: USB Date/time: 16-4-2008, 0915 UTC<br>Remarks: 221/00 Contr: (MUK)                                         |
| 7831.0 | M51  | Mode: CW Date/time: 11-4-2008, 1655 UTC<br>Remarks: = NR 50 A 08 19:05:04 1980 = QZQXC<br>Contr: (BCI)           |
| 7838   | M03  | Mode: CW Date/time: Mon 21-4-2008, 1545 UTC<br>Remarks: 140/32 == 18192 87974... Contr: (FN)                     |
| 7851   | M51  | Mode: CW Date/time: 24-4-2008, 0650 UTC<br>Remarks: = NR 27 A 24 19:06:32 1980 = BSAKF<br>LXDEH PXD Contr: (BCI) |
| 7852.0 | M51  | Mode: CW Date/time: 16-4-2008, 0616 UTC<br>Remarks: = NR 82 A 16 08:20:21 1980 = QRSFC<br>SCBQU Contr: (BCI)     |
| 7887   | V02a | Mode: AM Date/time: 1-4-2008, 2000 UTC<br>Remarks: A 78130 54078 41464 Contr: (Jon-FL)                           |
| 7887   | V02a | Mode: AM Date/time: 2-4-2008, 2000 UTC<br>Remarks: A 30728 88583 50177 Contr: (Jon-FL)                           |
| 7887   | V02a | Mode: AM Date/time: 3-4-2008, 2000 UTC<br>Remarks: A 78531 25361 08460 Contr: (Jon-FL)                           |
| 7887   | V02a | Mode: AM Date/time: 4-4-2008, 2000 UTC<br>Remarks: A 15372 81257 40106 Contr: (Jon-FL)                           |
| 7887   | V02a | Mode: AM Date/time: 5-4-2008, 2000 UTC<br>Remarks: A 50114 06150 74451 Contr: (Jon-FL)                           |
| 7887   | V02a | Mode: AM Date/time: 6-4-2008, 2000 UTC<br>Remarks: A 06891 60256 35624 Contr: (Jon-FL)                           |
| 7887   | V02a | Mode: AM Date/time: 7-4-2008, 2000 UTC<br>Remarks: A 62881 40601 03283 Contr: (Jon-FL)                           |
| 7887   | V02a | Mode: AM Date/time: 8-4-2008, 2000 UTC<br>Remarks: 45645 15045 13166 Contr: (Jon-FL)                             |
| 7887   | V02a | Mode: AM Date/time: 9-4-2008, 2000 UTC<br>Remarks: A 66414 12355 05215 (weak M08a mixed)<br>Contr: (Jon-FL)      |
| 7887   | V02a | Mode: AM Date/time: 9-4-2008, 2022 UTC<br>Remarks: 5F msg's Contr: (TS)                                          |

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| 7887   | V02a | Mode: AM Date/time: 10-4-2008, 2000 UTC<br>Remarks: A 03911 46000 68660 Contr: (Jon-FL)                            |
| 7887   | V02a | Mode: AM Date/time: 11-4-2008, 2000 UTC<br>Remarks: A 35661 53123 34482 Contr: (Jon-FL)                            |
| 7887   | V02a | Mode: AM Date/time: 12-4-2008, 2000 UTC<br>Remarks: A 10513 60803 68441 (early end) Contr:<br>(Jon-FL)             |
| 7887   | V02a | Mode: AM Date/time: 13-4-2008, 2000 UTC<br>Remarks: A 54071 23742 85413 Contr: (Jon-FL)                            |
| 7887   | V02a | Mode: AM Date/time: 14-4-2008, 2000 UTC<br>Remarks: A 64171 63442 11752 Contr: (Jon-FL)                            |
| 7887   | V02a | Mode: AM Date/time: 15-4-2008, 2000 UTC<br>Remarks: A xxxxx xxxxx 10342 (late start, no callup)<br>Contr: (Jon-FL) |
| 7887   | V02a | Mode: AM Date/time: 16-4-2008, 2000 UTC<br>Remarks: A 73361 54341 47313 Contr: (Jon-FL)                            |
| 7887   | V02a | Mode: AM Date/time: 17-4-2008, 2000 UTC<br>Remarks: A 73852 16313 64082 Contr: (Jon-FL)                            |
| 7887   | V02a | Mode: AM Date/time: 18-4-2008, 2000 UTC<br>Remarks: A 52582 73572 66322 Contr: (Jon-FL)                            |
| 7887   | V02a | Mode: AM Date/time: 19-4-2008, 2000 UTC<br>Remarks: A 67441 55512 11763 Contr: (Jon-FL)                            |
| 7887   | V02a | Mode: AM Date/time: 20-4-2008, 2000 UTC<br>Remarks: A 07212 57671 40662 (RHC background)<br>Contr: (Jon-FL)        |
| 7887   | V02a | Mode: AM Date/time: 21-4-2008, 2000 UTC<br>Remarks: A 10102 80621 80362 Contr: (Jon-FL)                            |
| 7887   | V02a | Mode: AM Date/time: 22-4-2008, 2000 UTC<br>Remarks: A 78531 23151 88333 Contr: (Jon-FL)                            |
| 7887   | V02a | Mode: AM Date/time: 23-4-2008, 2000 UTC<br>Remarks: A 05041 78272 20501 Contr: (Jon-FL)                            |
| 7887   | V02a | Mode: AM Date/time: 24-4-2008, 2000 UTC<br>Remarks: A 05431 32232 20311 Contr: (Jon-FL)                            |
| 7887   | V02a | Mode: AM Date/time: 25-4-2008, 2000 UTC<br>Remarks: A 06891 77731 58721 Contr: (Jon-FL)                            |
| 7887   | V02a | Mode: AM Date/time: 26-4-2008, 2000 UTC<br>Remarks: A 20212 75261 41732 (dropout) Contr: (Jon-<br>FL)              |
| 7887   | V02a | Mode: AM Date/time: 27-4-2008, 2000 UTC<br>Remarks: A 81613 54302 24162 Contr: (Jon-FL)                            |
| 7887   | V02a | Mode: AM Date/time: 28-4-2008, 2000 UTC<br>Remarks: A 32881 55331 48161 Contr: (Jon-FL)                            |
| 7887   | V02a | Mode: AM Date/time: 29-4-2008, 2000 UTC<br>Remarks: A 72343 73183 02873 Contr: (Jon-FL)                            |
| 7887   | V02a | Mode: AM Date/time: 30-4-2008, 2000 UTC<br>Remarks: A 21032 33511 30661 Contr: (Jon-FL)                            |
| 7887.0 | V02a | Mode: AM Date/time: Tue 1-4-2008, 2000 UTC<br>Remarks: A 78130 54078 41464 (YL/SS. Parallel                        |

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|        |      | broadcast on 13380m.) Contr: (MS)                                                                                                   |
| 7887.0 | V02a | Mode: AM Date/time: Wed 2-4-2008, 2000 UTC<br>Remarks: A 30728 88583 50177 (YL/SS) Contr: (MS)                                      |
| 7887.0 | V02a | Mode: AM Date/time: Fri 4-4-2008, 2000 UTC<br>Remarks: A ----- 81257 40106 (YL/SS. Contr: (MS)                                      |
| 7887.0 | V02a | Mode: AM Date/time: Sat 5-4-2008, 2000 UTC<br>Remarks: A 50114 06150 74451 (YL/SS.) Contr: (MS)                                     |
| 7887.0 | V02a | Mode: AM Date/time: Sun 6-4-2008, 2000 UTC<br>Remarks: A 06891 60256 35624 (YL/SS.) Contr: (MS)                                     |
| 7887.0 | V02a | Mode: AM Date/time: Mon 7-4-2008, 2005 UTC<br>Remarks: (In late, already in progress.) Contr: (MS)                                  |
| 7887.0 | V02a | Mode: AM Date/time: Tue 8-4-2008, 2000 UTC<br>Remarks: A 45645 15045 13166 (YL/SS) Contr: (MS)                                      |
| 7887.0 | V02a | Mode: AM Date/time: Thu 10-4-2008, 2000 UTC<br>Remarks: A 03911 46000 68660 (YL/SS) Contr: (MS)                                     |
| 7887.0 | V02a | Mode: AM Date/time: Sat 12-4-2008, 2000 UTC<br>Remarks: A 10513 60803 68441 (YL/SS) Contr: (MS)                                     |
| 7887.0 | V02a | Mode: AM Date/time: Sun 13-4-2008, 2000 UTC<br>Remarks: A 54071 23742 85413 (YL/SS) Contr: (MS)                                     |
| 7887.0 | V02a | Mode: AM Date/time: Mon 14-4-2008, 2000 UTC<br>Remarks: A 64177 6.442 .17.2 (YL/SS)(Too weak for<br>copy. Contr: (MS)               |
| 7887.0 | V02a | Mode: AM Date/time: Tue 15-4-2008, 2000 UTC<br>Remarks: (Carrier present, but no audio.) Contr: (MS)                                |
| 7887.0 | V02a | Mode: AM Date/time: Tue 15-4-2008, 2015 UTC<br>Remarks: First intercepts with Eton E1,outside with fair<br>signal and b Contr: (EC) |
| 7887.0 | V02a | Mode: AM Date/time: Wed 16-4-2008, 2000 UTC<br>Remarks: A 73361 54341 47313 (YL/SS) Contr: (MS)                                     |
| 7887.0 | V02a | Mode: AM Date/time: Fri 18-4-2008, 2000 UTC<br>Remarks: A 52582 73572 66322 (YL/SS) Contr: (MS)                                     |
| 7887.0 | V02a | Mode: AM Date/time: Mon 21-4-2008, 2000 UTC<br>Remarks: A 10102 80621 80362 (YL/SS) Contr: (MS)                                     |
| 7887.0 | V02a | Mode: AM Date/time: Tue 22-4-2008, 2000 UTC<br>Remarks: (Too weak for copy. YL/SS.) Contr: (MS)                                     |
| 7887.0 | V02a | Mode: AM Date/time: Fri 25-4-2008, 2000 UTC<br>Remarks: A 06891 77731 58721 (YL/SS) Contr: (MS)                                     |
| 7887.0 | V02a | Mode: AM Date/time: Sun 27-4-2008, 2000 UTC<br>Remarks: (Too weak for copy. YL/SS) Contr: (MS)                                      |
| 7887.0 | V02a | Mode: AM Date/time: Mon 28-4-2008, 2000 UTC<br>Remarks: A 72343 73183 02873 (YL/SS.) Contr: (MS)                                    |
| 7918.0 | E10  | Mode: AM Date/time: 16-4-2008, 0736 UTC<br>Remarks: YHF2 Contr: (BCI)                                                               |
| 7931   | M12  | Mode: CW Date/time: 13-4-2008, 1822 UTC<br>Remarks: 257 257 1 ... 119 6705 119 70329 51801 ...<br>7 Contr: (MPJ)                    |
| 7931   | M12  | Mode: CW Date/time: 14-4-2008, 1922 UTC<br>Remarks: 257 257 1 257 257 1 1284 61 1284 61                                             |

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|        |      | 79734 .. Contr: (MPJ)                                                                                                              |
| 7931   | M12  | Mode: CW Date/time: Mon 21-4-2008, 1920 UTC<br>Remarks: 257 1 9830 63 Contr: (FN)                                                  |
| 7974   | M08a | Mode: CW Date/time: 1-4-2008, 2100 UTC<br>Remarks: ID 40813 17677 85301 Contr: (Jon-FL)                                            |
| 7974   | M08a | Mode: CW Date/time: 4-4-2008, 2100 UTC<br>Remarks: ID 06535 88571 41561 Contr: (Jon-FL)                                            |
| 7974   | M08a | Mode: CW Date/time: 7-4-2008, 2100 UTC<br>Remarks: ID 52602 46671 57703 Contr: (Jon-FL)                                            |
| 7974   | M08a | Mode: CW Date/time: 8-4-2008, 2100 UTC<br>Remarks: ID 63112 48213 51451 Contr: (Jon-FL)                                            |
| 7974   | M08a | Mode: CW Date/time: 15-4-2008, 2100 UTC<br>Remarks: ID 01262 31373 82711 Contr: (Jon-FL)                                           |
| 7974   | M08a | Mode: CW Date/time: 18-4-2008, 2100 UTC<br>Remarks: ID 17051 62563 45171 Contr: (Jon-FL)                                           |
| 7974   | M08a | Mode: CW Date/time: 21-4-2008, 2100 UTC<br>Remarks: ID xxxxx 87443 74522 (late start, no callup)<br>Contr: (Jon-FL)                |
| 7974   | M08a | Mode: CW Date/time: 22-4-2008, 2100 UTC<br>Remarks: ID 55372 93821 74531 Contr: (Jon-FL)                                           |
| 7974   | M08a | Mode: CW Date/time: 25-4-2008, 2100 UTC<br>Remarks: ID xxxxx xxxxx 05871 (weak) Contr: (Jon-FL)                                    |
| 7974.0 | M08a | Mode: CW Date/time: Tue 1-4-2008, 2100 UTC<br>Remarks: ID 40813 17677 85301 Contr: (MS)                                            |
| 7974.0 | M08a | Mode: CW Date/time: Fri 4-4-2008, 2100 UTC<br>Remarks: ID 06535 88571 41561 Contr: (MS)                                            |
| 7974.0 | M08a | Mode: CW Date/time: Mon 7-4-2008, 2100 UTC<br>Remarks: ID 52602 46671 57703 Contr: (MS)                                            |
| 7974.0 | M08a | Mode: CW Date/time: Tue 8-4-2008, 2100 UTC<br>Remarks: ID 63112 48213 51451 Contr: (MS)                                            |
| 7974.0 | M08a | Mode: CW Date/time: Sat 12-4-2008, 2108 UTC<br>Remarks: ID ..... 64062 ..... (In to sked late.) Contr: (MS)                        |
| 7974.0 | M08a | Mode: CW Date/time: Sun 13-4-2008, 2200 UTC<br>Remarks: ID 19891 03133 73731 (Stopped at 2203z<br>and moved to correct Contr: (MS) |
| 7974.0 | M08a | Mode: CW Date/time: Tue 22-4-2008, 2100 UTC<br>Remarks: (Too weak for copy.) Contr: (MS)                                           |
| 7974.0 | M08a | Mode: CW Date/time: Sun 27-4-2008, 2100 UTC<br>Remarks: ID 26772 ..... (In here late, only copied<br>first addre Contr: (MS)       |
| 7974.0 | M08a | Mode: CW Date/time: Mon 28-4-2008, 2100 UTC<br>Remarks: ID 44642 14043 75311 Contr: (MS)                                           |
| 7984   | G11  | Mode: CW Date/time: Fri 11-4-2008, 1100 UTC<br>Remarks: 508/00 Contr: (FN)                                                         |
| 7984.0 | G11  | Mode: USB Date/time: 11-4-2008, 1100 UTC<br>Remarks: 508/00 Contr: (HFD)                                                           |
| 7984.0 | S11a | Mode: USB Date/time: 24-4-2008, 1030 UTC<br>Remarks: 217/47 Contr: (HFD)                                                           |

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|---------|------|------------------------------------------------------------------------------------------------------------------|
| 7991.0  | M51  | Mode: CW Date/time: 8-4-2008, 1714 UTC<br>Remarks: = NR 47 A 08 19:19:35 1980 = HKROE<br>ADZPR Contr: (BCI)      |
| 7994    | M21  | Mode: CW Date/time: 13-4-2008, 0449 UTC<br>Remarks: Russian a=Air Defence =99?t849?9?????<br>=1277t Contr: (PPA) |
| 8008.06 | M51  | Mode: CW Date/time: 2-4-2008, 0333 UTC<br>Remarks: = NR 57 A 02 06:30:42 1980 = Contr: (Jon-FL)                  |
| 8009    | M08a | Mode: CW Date/time: 2-4-2008, 2000 UTC<br>Remarks: ID 95931 44300 03661 Contr: (Jon-FL)                          |
| 8009    | M08a | Mode: CW Date/time: 2-4-2008, 2300 UTC<br>Remarks: ID 41820 80316 46510 (fast version) Contr: (Jon-FL)           |
| 8009    | M08a | Mode: CW Date/time: 3-4-2008, 2200 UTC<br>Remarks: ID 26668 93821 66310 Contr: (Jon-FL)                          |
| 8009    | M08a | Mode: CW Date/time: 4-4-2008, 2000 UTC<br>Remarks: ID 76031 00527 83467 Contr: (Jon-FL)                          |
| 8009    | M08a | Mode: CW Date/time: 7-4-2008, 2300 UTC<br>Remarks: ID 23027 37103 42632 (fast version) Contr: (Jon-FL)           |
| 8009    | M08a | Mode: CW Date/time: 9-4-2008, 2000 UTC<br>Remarks: ID 84271 12678 61427 (weak V02a mixed)<br>Contr: (Jon-FL)     |
| 8009    | M08a | Mode: CW Date/time: 9-4-2008, 2300 UTC<br>Remarks: ID 75025 81578 63183 (fast version) Contr: (Jon-FL)           |
| 8009    | M08a | Mode: CW Date/time: 10-4-2008, 2200 UTC<br>Remarks: ID 74531 51772 38874 (fast version) Contr: (Jon-FL)          |
| 8009    | M08a | Mode: CW Date/time: 16-4-2008, 2300 UTC<br>Remarks: ID 34062 26551 30441 Contr: (Jon-FL)                         |
| 8009    | M08a | Mode: CW Date/time: 21-4-2008, 2300 UTC<br>Remarks: ID 16483 68113 42043 (fast version) Contr: (Jon-FL)          |
| 8009.0  | M08a | Mode: CW Date/time: Wed 2-4-2008, 2000 UTC<br>Remarks: ID 95331 44300 03661 Contr: (MS)                          |
| 8009.0  | M08a | Mode: CW Date/time: Wed 2-4-2008, 2300 UTC<br>Remarks: ID 41820 80316 46510 Contr: (MS)                          |
| 8009.0  | M08a | Mode: MCW Date/time: Fri 4-4-2008, 2000 UTC<br>Remarks: ID 76031 00527 83467 Contr: (MS)                         |
| 8009.0  | M08a | Mode: CW Date/time: Mon 7-4-2008, 2006 UTC<br>Remarks: (In late, already in progress.) Contr: (MS)               |
| 8009.0  | M08a | Mode: CW Date/time: Mon 7-4-2008, 2300 UTC<br>Remarks: ID 23027 37103 42632 Contr: (MS)                          |
| 8009.0  | M08a | Mode: CW Date/time: Mon 7-4-2008, 2300 UTC<br>Remarks: 5-fig cut numbers 23027 37103 42132<br>Contr: (Westli)    |



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| 8009.0 | M08a | Mode: CW Date/time: Wed 9-4-2008, 2300 UTC<br>Remarks: ID 75025 81878 63183 Contr: (MS)                           |
| 8009.0 | M08a | Mode: CW Date/time: Thu 10-4-2008, 2200 UTC<br>Remarks: ID 74531 51772 38874 Contr: (MS)                          |
| 8009.0 | M08a | Mode: CW Date/time: Mon 21-4-2008, 2300 UTC<br>Remarks: 5-fig cut numbers weak Contr: (Westli)                    |
| 8009.0 | M08a | Mode: CW Date/time: Mon 21-4-2008, 2300 UTC<br>Remarks: ID 16483 68113 42043 Contr: (MS)                          |
| 8010   | V02a | Mode: LSB Date/time: 23-4-2008, 2000 UTC<br>Remarks: A 05041 78272 20501 (parallel 7887) Contr:<br>(Jon-FL)       |
| 8020.0 | E06  | Mode: AM Date/time: 13-4-2008, 1830 UTC<br>Remarks: 690:0 Contr: (HFD)                                            |
| 8032.0 | M51  | Mode: CW Date/time: 31-3-2008, 0949 UTC<br>Remarks: ip Contr: (BCI)                                               |
| 8040   | S06  | Mode: AM Date/time: 14-4-2008, 1600 UTC<br>Remarks: 176 890 5 31364 80671 76397 35557 77914<br>890 5 Contr: (MUK) |
| 8055.0 | G06  | Mode: AM Date/time: 7-4-2008, 1900 UTC<br>Remarks: 308:0 Contr: (HFD)                                             |
| 8078   | X06  | Mode: AM Date/time: 3-4-2008, 0610 UTC<br>Remarks: Mazielka. Sequence: 121212 Contr: (RiN)                        |
| 8080   | E06  | Mode: AM Date/time: Thu 10-4-2008, 1500 UTC<br>Remarks: 245 307 269 Contr: (FN)                                   |
| 8080.0 | E06  | Mode: AM Date/time: 9-4-2008, 1500 UTC<br>Remarks: 245-307/269=46184 Contr: (HFD)                                 |
| 8083   | X06  | Mode: AM Date/time: 8-4-2008, 1816 UTC<br>Remarks: Mazielka. Sequence: 154632 Contr: (RiN)                        |
| 8083   | X06  | Mode: AM Date/time: 23-4-2008, 1900 UTC<br>Remarks: Mazielka/. Sequence: 154632 Contr: (RiN)                      |
| 8097   | M08a | Mode: MCW Date/time: 1-4-2008, 1800 UTC<br>Remarks: ID 30257 23123 22160 Contr: (Jon-FL)                          |
| 8097   | M08a | Mode: MCW Date/time: 1-4-2008, 1900 UTC<br>Remarks: ID 30257 23123 22160 Contr: (Jon-FL)                          |
| 8097   | M08a | Mode: MCW Date/time: 2-4-2008, 1800 UTC<br>Remarks: ID 11658 36780 12545 Contr: (Jon-FL)                          |
| 8097   | M08a | Mode: MCW Date/time: 2-4-2008, 1900 UTC<br>Remarks: ID 11658 36780 12545 Contr: (Jon-FL)                          |
| 8097   | M08a | Mode: MCW Date/time: 3-4-2008, 1800 UTC<br>Remarks: 95381 82277 32607 (12345 67890 then<br>M08a) Contr: (Jon-FL)  |
| 8097   | M08a | Mode: MCW Date/time: 3-4-2008, 1900 UTC<br>Remarks: ID 95381 82277 32607 Contr: (Jon-FL)                          |
| 8097   | M08a | Mode: MCW Date/time: 4-4-2008, 1800 UTC<br>Remarks: ID 07285 68047 42167 Contr: (Jon-FL)                          |
| 8097   | M08a | Mode: MCW Date/time: 4-4-2008, 1900 UTC<br>Remarks: ID 07285 68047 42167 Contr: (Jon-FL)                          |
| 8097   | M08a | Mode: MCW Date/time: 5-4-2008, 1800 UTC                                                                           |

|      |      |                                                                        |
|------|------|------------------------------------------------------------------------|
|      |      | Remarks: ID 73562 50472 24526 Contr: (Jon-FL)                          |
| 8097 | M08a | Mode: MCW Date/time: 5-4-2008, 1900 UTC                                |
|      |      | Remarks: ID 73562 50472 24526 Contr: (Jon-FL)                          |
| 8097 | M08a | Mode: MCW Date/time: 6-4-2008, 1800 UTC                                |
|      |      | Remarks: ID 94651 04244 18320 Contr: (Jon-FL)                          |
| 8097 | M08a | Mode: MCW Date/time: 6-4-2008, 1900 UTC                                |
|      |      | Remarks: ID 94651 04244 18320 Contr: (Jon-FL)                          |
| 8097 | M08a | Mode: MCW Date/time: 7-4-2008, 1800 UTC                                |
|      |      | Remarks: ID 02131 42281 36112 (12345 67890, then M08a) Contr: (Jon-FL) |
| 8097 | M08a | Mode: MCW Date/time: 7-4-2008, 1900 UTC                                |
|      |      | Remarks: ID 02131 42281 36112 Contr: (Jon-FL)                          |
| 8097 | M08a | Mode: MCW Date/time: 8-4-2008, 1800 UTC                                |
|      |      | Remarks: ID 03410 35345 01832 Contr: (Jon-FL)                          |
| 8097 | M08a | Mode: MCW Date/time: 8-4-2008, 1900 UTC                                |
|      |      | Remarks: ID 03410 35345 01832 Contr: (Jon-FL)                          |
| 8097 | M08a | Mode: MCW Date/time: 9-4-2008, 1800 UTC                                |
|      |      | Remarks: ID 17126 80152 55728 Contr: (Jon-FL)                          |
| 8097 | M08a | Mode: MCW Date/time: 9-4-2008, 1900 UTC                                |
|      |      | Remarks: ID 17126 80152 55728 Contr: (Jon-FL)                          |
| 8097 | M08a | Mode: MCW Date/time: 10-4-2008, 1800 UTC                               |
|      |      | Remarks: ID 88941 43223 87673 Contr: (Jon-FL)                          |
| 8097 | M08a | Mode: MCW Date/time: 10-4-2008, 1900 UTC                               |
|      |      | Remarks: ID 88941 43223 87673 (dropout) Contr: (Jon-FL)                |
| 8097 | M08a | Mode: MCW Date/time: 11-4-2008, 1800 UTC                               |
|      |      | Remarks: ID 58021 70343 53151 Contr: (Jon-FL)                          |
| 8097 | M08a | Mode: MCW Date/time: 11-4-2008, 1900 UTC                               |
|      |      | Remarks: ID 58021 70343 53151 Contr: (Jon-FL)                          |
| 8097 | M08a | Mode: MCW Date/time: 12-4-2008, 1800 UTC                               |
|      |      | Remarks: ID xxxxx 53073 65621 (late start, no callup) Contr: (Jon-FL)  |
| 8097 | M08a | Mode: MCW Date/time: 12-4-2008, 1900 UTC                               |
|      |      | Remarks: ID 25482 53073 65621 Contr: (Jon-FL)                          |
| 8097 | M08a | Mode: MCW Date/time: 13-4-2008, 1800 UTC                               |
|      |      | Remarks: ID 33811 14821 00523 (dropout) Contr: (Jon-FL)                |
| 8097 | M08a | Mode: MCW Date/time: 13-4-2008, 1900 UTC                               |
|      |      | Remarks: ID 33811 14821 00523 Contr: (Jon-FL)                          |
| 8097 | M08a | Mode: MCW Date/time: 14-4-2008, 1800 UTC                               |
|      |      | Remarks: ID 43053 73201 70602 (dropouts) Contr: (Jon-FL)               |
| 8097 | M08a | Mode: MCW Date/time: 14-4-2008, 1900 UTC                               |
|      |      | Remarks: ID 43053 73201 70602 Contr: (Jon-FL)                          |
| 8097 | M08a | Mode: MCW Date/time: 15-4-2008, 1800 UTC                               |
|      |      | Remarks: ID 67213 82323 40421 (uno) Contr: (Jon-FL)                    |
| 8097 | M08a | Mode: MCW Date/time: 15-4-2008, 1900 UTC                               |
|      |      | Remarks: ID 76213 82323 40421 Contr: (Jon-FL)                          |

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| 8097 | M08a | Mode: MCW Date/time: 16-4-2008, 1800 UTC<br>Remarks: ID xxxxx 72071 44711 (late start, no callup)<br>Contr: (Jon-FL) |
| 8097 | M08a | Mode: MCW Date/time: 16-4-2008, 1900 UTC<br>Remarks: ID 90571 72071 44711 Contr: (Jon-FL)                            |
| 8097 | M08a | Mode: MCW Date/time: 17-4-2008, 1800 UTC<br>Remarks: ID 75831 06571 02731 Contr: (Jon-FL)                            |
| 8097 | M08a | Mode: MCW Date/time: 17-4-2008, 1900 UTC<br>Remarks: ID 75831 06571 02731 Contr: (Jon-FL)                            |
| 8097 | M08a | Mode: MCW Date/time: 18-4-2008, 1800 UTC<br>Remarks: ID 84501 23271 13883 Contr: (Jon-FL)                            |
| 8097 | M08a | Mode: MCW Date/time: 18-4-2008, 1800 UTC<br>Remarks: 5F msgs Contr: (TS)                                             |
| 8097 | M08a | Mode: MCW Date/time: 18-4-2008, 1900 UTC<br>Remarks: ID 84501 23271 13883 Contr: (Jon-FL)                            |
| 8097 | M08a | Mode: MCW Date/time: 19-4-2008, 1800 UTC<br>Remarks: ID 39681 76632 86202 Contr: (Jon-FL)                            |
| 8097 | M08a | Mode: MCW Date/time: 19-4-2008, 1900 UTC<br>Remarks: ID 39681 76632 86202 (early end) Contr:<br>(Jon-FL)             |
| 8097 | M08a | Mode: MCW Date/time: 20-4-2008, 1800 UTC<br>Remarks: ID 67533 81873 36163 Contr: (Jon-FL)                            |
| 8097 | M08a | Mode: MCW Date/time: 20-4-2008, 1900 UTC<br>Remarks: ID 67533 81873 36163 Contr: (Jon-FL)                            |
| 8097 | M08a | Mode: MCW Date/time: 21-4-2008, 1800 UTC<br>Remarks: ID xxxxx 42623 01302 (late start, no callup)<br>Contr: (Jon-FL) |
| 8097 | M08a | Mode: MCW Date/time: 21-4-2008, 1900 UTC<br>Remarks: ID 47043 42623 01302 Contr: (Jon-FL)                            |
| 8097 | M08a | Mode: MCW Date/time: 22-4-2008, 1800 UTC<br>Remarks: ID 95381 45481 67713 (dropout) Contr:<br>(Jon-FL)               |
| 8097 | M08a | Mode: MCW Date/time: 22-4-2008, 1900 UTC<br>Remarks: ID 95381 45481 67713 Contr: (Jon-FL)                            |
| 8097 | M08a | Mode: MCW Date/time: 23-4-2008, 1800 UTC<br>Remarks: ID 45801 64322 63302 Contr: (Jon-FL)                            |
| 8097 | M08a | Mode: MCW Date/time: 23-4-2008, 1900 UTC<br>Remarks: ID 45801 64322 63302 Contr: (Jon-FL)                            |
| 8097 | M08a | Mode: MCW Date/time: 24-4-2008, 1800 UTC<br>Remarks: ID 51673 78452 64152 Contr: (Jon-FL)                            |
| 8097 | M08a | Mode: MCW Date/time: 24-4-2008, 1900 UTC<br>Remarks: ID 51673 78452 64152 Contr: (Jon-FL)                            |
| 8097 | M08a | Mode: MCW Date/time: 25-4-2008, 1800 UTC<br>Remarks: ID 94651 71411 06831 Contr: (Jon-FL)                            |
| 8097 | M08a | Mode: MCW Date/time: 25-4-2008, 1900 UTC<br>Remarks: ID 94651 71411 06831 Contr: (Jon-FL)                            |
| 8097 | M08a | Mode: MCW Date/time: 26-4-2008, 1800 UTC<br>Remarks: (carrier, no audio) Contr: (Jon-FL)                             |

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| 8097   | M08a | Mode: MCW Date/time: 26-4-2008, 1900 UTC<br>Remarks: ID xxxxx xxxxx 78023 (late start, no callup)<br>Contr: (Jon-FL)                 |
| 8097   | M08a | Mode: MCW Date/time: 27-4-2008, 1800 UTC<br>Remarks: ID 40842 56513 30653 Contr: (Jon-FL)                                            |
| 8097   | M08a | Mode: MCW Date/time: 27-4-2008, 1900 UTC<br>Remarks: ID 40842 56513 30653 Contr: (Jon-FL)                                            |
| 8097   | M08a | Mode: MCW Date/time: 28-4-2008, 1800 UTC<br>Remarks: ID 47484 08531 38352 Contr: (Jon-FL)                                            |
| 8097   | M08a | Mode: MCW Date/time: 28-4-2008, 1900 UTC<br>Remarks: ID 37481 08531 38352 Contr: (Jon-FL)                                            |
| 8097   | M08a | Mode: MCW Date/time: 29-4-2008, 1800 UTC<br>Remarks: ID 08012 13181 10521 (uno) Contr: (Jon-FL)                                      |
| 8097   | M08a | Mode: MCW Date/time: 29-4-2008, 1900 UTC<br>Remarks: ID 08012 13181 10521 (background) Contr:<br>(Jon-FL)                            |
| 8097   | M08a | Mode: MCW Date/time: 30-4-2008, 1800 UTC<br>Remarks: ID xxxxx 55082 23132 (RX error) Contr: (Jon-<br>FL)                             |
| 8097   | M08a | Mode: MCW Date/time: 30-4-2008, 1900 UTC<br>Remarks: ID 17262 55082 23132 Contr: (Jon-FL)                                            |
| 8097.0 | M08a | Mode: MCW Date/time: Tue 1-4-2008, 1900 UTC<br>Remarks: ID 30257 23123 22160 Contr: (MS)                                             |
| 8097.0 | M08a | Mode: MCW Date/time: Sun 6-4-2008, 1800 UTC<br>Remarks: ID 94651 04244 18320 Contr: (MS)                                             |
| 8097.0 | M08a | Mode: MCW Date/time: Sun 6-4-2008, 1900 UTC<br>Remarks: ID 94651 04244 18320 Contr: (MS)                                             |
| 8097.0 | M08a | Mode: MCW Date/time: Sat 12-4-2008, 1800 UTC<br>Remarks: ID ..... 53073 65621 (Sked up late and into<br>traffic at 1805z Contr: (MS) |
| 8097.0 | M08a | Mode: MCW Date/time: Sat 12-4-2008, 1900 UTC<br>Remarks: ID 25482 53073 65621 Contr: (MS)                                            |
| 8097.0 | M08a | Mode: MCW Date/time: Sun 13-4-2008, 1800 UTC<br>Remarks: ID 33811 14821 00523 Contr: (MS)                                            |
| 8097.0 | M08a | Mode: MCW Date/time: Sun 13-4-2008, 1900 UTC<br>Remarks: ID 33811 14821 00523 Contr: (MS)                                            |
| 8097.0 | M08a | Mode: MCW Date/time: Sat 19-4-2008, 1800 UTC<br>Remarks: 5-fig cut numbers Contr: (Westli)                                           |
| 8097.0 | M08a | Mode: MCW Date/time: Sat 19-4-2008, 1900 UTC<br>Remarks: 5-fig cut numbers Contr: (Westli)                                           |
| 8097.0 | M08a | Mode: CW Date/time: Sun 20-4-2008, 1800 UTC<br>Remarks: Fair signal strength, cut numbers. Contr: (EC)                               |
| 8097.0 | M08a | Mode: MCW Date/time: Sun 20-4-2008, 1900 UTC<br>Remarks: ID 67533 81873 36163 Contr: (MS)                                            |
| 8097.0 | M08a | Mode: MCW Date/time: Mon 21-4-2008, 1900 UTC<br>Remarks: ID 47043 42623 01302 Contr: (MS)                                            |
| 8097.0 | M08a | Mode: MCW Date/time: Tue 22-4-2008, 1800 UTC<br>Remarks: ID 95381 45481 67713 Contr: (MS)                                            |

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| 8097.0 | M08a | Mode: MCW Date/time: Tue 22-4-2008, 1900 UTC<br>Remarks: ID 95381 45481 67713 Contr: (MS)                                          |
| 8097.0 | M08a | Mode: MCW Date/time: Thu 24-4-2008, 1800 UTC<br>Remarks: ID 51673 78452 64152 Contr: (MS)                                          |
| 8097.0 | M08a | Mode: MCW Date/time: Thu 24-4-2008, 1900 UTC<br>Remarks: ID 51673 78452 64152 Contr: (MS)                                          |
| 8097.0 | M08a | Mode: MCW Date/time: Fri 25-4-2008, 1900 UTC<br>Remarks: ID 94651 71411 06831 Contr: (MS)                                          |
| 8097.0 | M08a | Mode: MCW Date/time: Sun 27-4-2008, 1800 UTC<br>Remarks: ID 40842 56513 30653 Contr: (MS)                                          |
| 8097.0 | M08a | Mode: MCW Date/time: Sun 27-4-2008, 1900 UTC<br>Remarks: ID 40842 56513 30653 Contr: (MS)                                          |
| 8097.0 | M08a | Mode: MCW Date/time: Wed 30-4-2008, 1800 UTC<br>Remarks: ID 17262 55082 23132 Contr: (MS)                                          |
| 8105   | S06  | Mode: AM Date/time: 2-4-2008, 1240 UTC<br>Remarks: "967" repeat Contr: (RiN)                                                       |
| 8105   | S06  | Mode: AM Date/time: Wed 16-4-2008, 1240 UTC<br>Remarks: 967 280 5 Contr: (FN)                                                      |
| 8105.0 | S06  | Mode: AM Date/time: 16-4-2008, 1240 UTC<br>Remarks: 967 Contr: (HFD)                                                               |
| 8123   | E07  | Mode: AM Date/time: 20-4-2008, 1740 UTC<br>Remarks: 171 1 436 69 Contr: (MUK)                                                      |
| 8123.0 | E07  | Mode: AM Date/time: 2-4-2008, 1740 UTC<br>Remarks: 171:1-978/63=10089 Contr: (HFD)                                                 |
| 8125.5 | M42  | Mode: Crowd36 Date/time: 16-4-2008, 0820 UTC<br>Remarks: DOSC Contr: (BCI)                                                         |
| 8129   | M51  | Mode: CW Date/time: 26-4-2008, 2053 UTC<br>Remarks: = NR 76 A 23 17:52:03 1980", 5LGs //8154.5<br>k Contr: (ALF)                   |
| 8130   | S06  | Mode: AM Date/time: 2-4-2008, 1200 UTC<br>Remarks: "480" 539 41 groups Contr: (RiN)                                                |
| 8130   | S06  | Mode: AM Date/time: Wed 16-4-2008, 1208 UTC<br>Remarks: i.p. Contr: (FN)                                                           |
| 8135   | M08a | Mode: CW Date/time: 1-4-2008, 2300 UTC<br>Remarks: ID 11931 41048 60202 (fast version) Contr:<br>(Jon-FL)                          |
| 8135   | M08a | Mode: CW Date/time: 3-4-2008, 2300 UTC<br>Remarks: ID xxxxx xxxxx xxxxx (very late start, no IDs,<br>fast version) Contr: (Jon-FL) |
| 8135   | M08a | Mode: CW Date/time: 4-4-2008, 2300 UTC<br>Remarks: ID 76961 61353 20650 (fast version) Contr:<br>(Jon-FL)                          |
| 8135   | M08a | Mode: CW Date/time: 8-4-2008, 2300 UTC<br>Remarks: ID 21501 20801 55471 (fast version, TX<br>problems) Contr: (Jon-FL)             |
| 8135   | M08a | Mode: CW Date/time: 10-4-2008, 2300 UTC<br>Remarks: ID 74531 51772 38874 (fast version) Contr:<br>(Jon-FL)                         |

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| 8135   | M08a | Mode: CW Date/time: 11-4-2008, 2300 UTC<br>Remarks: ID 02581 30282 47181 (fast version) Contr:<br>(Jon-FL)                        |
| 8135   | M08a | Mode: CW Date/time: 15-4-2008, 2300 UTC<br>Remarks: ID 01282 31373 82711 (fast version) Contr:<br>(Jon-FL)                        |
| 8135   | M08a | Mode: CW Date/time: 17-4-2008, 2300 UTC<br>Remarks: ID 10722 40063 86263 (fast version) Contr:<br>(Jon-FL)                        |
| 8135   | M08a | Mode: CW Date/time: 18-4-2008, 2300 UTC<br>Remarks: ID 11931 11162 27231 (fast version) Contr:<br>(Jon-FL)                        |
| 8135   | M08a | Mode: CW Date/time: 22-4-2008, 2300 UTC<br>Remarks: ID 57873 80482 66302 (fast version) Contr:<br>(Jon-FL)                        |
| 8135   | M08a | Mode: CW Date/time: 29-4-2008, 2300 UTC<br>Remarks: ID xxxxx 80871 54432 (late start, no callup,<br>fast version) Contr: (Jon-FL) |
| 8135.0 | M08a | Mode: CW Date/time: Tue 8-4-2008, 2300 UTC<br>Remarks: 5-fig cut numbers 55471 21501 20801<br>Contr: (Westli)                     |
| 8135.0 | M08a | Mode: CW Date/time: Thu 10-4-2008, 2300 UTC<br>Remarks: ID 74531 51772 38874 Contr: (MS)                                          |
| 8135.0 | M08a | Mode: CW Date/time: Fri 11-4-2008, 2300 UTC<br>Remarks: ID 02581 30282 47181 Contr: (MS)                                          |
| 8135.0 | M08a | Mode: CW Date/time: Tue 15-4-2008, 2300 UTC<br>Remarks: 5-fig cut numbers too weak to copy Contr:<br>(Westli)                     |
| 8135.0 | M08a | Mode: CW Date/time: Thu 17-4-2008, 2300 UTC<br>Remarks: ID 10722 40063 86263 Contr: (MS)                                          |
| 8135.0 | M08a | Mode: CW Date/time: Thu 17-4-2008, 2300 UTC<br>Remarks: 5-fig cut numbers 10722 40063 86263<br>Contr: (Westli)                    |
| 8135.0 | M08a | Mode: CW Date/time: Fri 18-4-2008, 2300 UTC<br>Remarks: 5-fig cut numbers 11931 11162 27231<br>Contr: (Westli)                    |
| 8135.0 | M08a | Mode: CW Date/time: Tue 22-4-2008, 2300 UTC<br>Remarks: Contr: (ANPR)                                                             |
| 8135.0 | M08a | Mode: CW Date/time: Tue 22-4-2008, 2300 UTC<br>Remarks: xxxxx 80482 66302 weak but readable<br>Contr: (ANPR)                      |
| 8141   | X06  | Mode: AM Date/time: 3-4-2008, 0620 UTC<br>Remarks: Mazielka. Sequence: 121212 Contr: (RiN)                                        |
| 8154.5 | M51  | Mode: CW Date/time: 26-4-2008, 2053 UTC<br>Remarks: = NR 76 A 23 17:52:03 1980", 5LGs //8129<br>kHz Contr: (ALF)                  |
| 8154.6 | M51  | Mode: CW Date/time: 8-4-2008, 0853 UTC<br>Remarks: CQ DE FAV22 VA Contr: (BCI)                                                    |

|        |      |                                                                                                                        |
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| 8160.0 | M08a | Mode: MCW Date/time: Wed 9-4-2008, 0800 UTC<br>Remarks: 5-fig cut numbers 03245 15547 23735<br>Contr: (Westli)         |
| 8160.0 | M08a | Mode: MCW Date/time: Mon 14-4-2008, 0800 UTC<br>Remarks: 5-fig cut numbers 61202 70231 40101<br>Contr: (Westli)        |
| 8160.0 | M08a | Mode: CW Date/time: Wed 23-4-2008, 0800 UTC<br>Remarks: 5-fig cut numbers 16441 41611 10033<br>Contr: (Westli)         |
| 8170   | S06  | Mode: AM Date/time: 3-4-2008, 2010 UTC<br>Remarks: 270 148 35 Contr: (MUK)                                             |
| 8172   | M??  | Mode: CW Date/time: 30-4-2008, 0421 UTC<br>Remarks: 913 913 913 000 Contr: (ALF)                                       |
| 8180   | SK01 | Mode: RDFT Date/time: 8-4-2008, 0800 UTC<br>Remarks: 3x 45368268.f1b 374 bytes Contr: (Jon-FL)                         |
| 8180   | SK01 | Mode: RDFT Date/time: 10-4-2008, 0800 UTC<br>Remarks: 6x 11269744 55362 1496 bytes Contr: (Jon-FL)                     |
| 8180   | SK01 | Mode: RDFT Date/time: 10-4-2008, 0900 UTC<br>Remarks: 3x 11269744 55362 1496 bytes Contr: (Jon-FL)                     |
| 8180   | SK01 | Mode: RDFT Date/time: 22-4-2008, 0800 UTC<br>Remarks: (carrier, no audio) Contr: (Jon-FL)                              |
| 8180   | SK01 | Mode: RDFT Date/time: 22-4-2008, 0900 UTC<br>Remarks: 55236481 1496 bytes 44111 Contr: (Jon-FL)                        |
| 8180   | SK01 | Mode: PSK31 Date/time: 22-4-2008, 0900 UTC<br>Remarks: psk220fec fragment Contr: (Jon-FL)                              |
| 8180   | SK01 | Mode: AM Date/time: 24-4-2008, 0800 UTC<br>Remarks: (carrier, no audio) Contr: (Jon-FL)                                |
| 8180   | SK01 | Mode: AM Date/time: 24-4-2008, 0900 UTC<br>Remarks: (carrier, no audio) Contr: (Jon-FL)                                |
| 8180   | SK01 | Mode: RDFT Date/time: 29-4-2008, 0800 UTC<br>Remarks: 6x (Jon-FL) RDFT 8541237895 1496 bytes 10943 Contr: (Jon-FL)     |
| 8180   | SK01 | Mode: RDFT Date/time: 29-4-2008, 0900 UTC<br>Remarks: 6x (Jon-FL) RDFT 8541237895 1496 bytes 10943 Contr: (Jon-FL)     |
| 8180.0 | SK01 | Mode: MCW Date/time: Tue 1-4-2008, 0800 UTC<br>Remarks: (Began to send digital traffic at 0804z)<br>Contr: (MS)        |
| 8180.0 | SK01 | Mode: MCW Date/time: Thu 3-4-2008, 0800 UTC<br>Remarks: (Carrier up, but no traffic by 0807z.) Contr: (MS)             |
| 8180.0 | SK01 | Mode: AM Date/time: Tue 8-4-2008, 0800 UTC<br>Remarks: (Sending digital traffic) Contr: (MS)                           |
| 8180.0 | SK01 | Mode: AM Date/time: Thu 10-4-2008, 0800 UTC<br>Remarks: (Strong carrier, but no transmission by 0806z.)<br>Contr: (MS) |

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| 8180.0 | SK01 | Mode: AM Date/time: Tue 15-4-2008, 0800 UTC<br>Remarks: (Strong carrier, but no transmission by 0807z.) Contr: (MS)          |
| 8180.0 | SK01 | Mode: AM Date/time: Tue 22-4-2008, 0800 UTC<br>Remarks: (Strong carrier - no broadcast by 0807z.)<br>Contr: (MS)             |
| 8180.0 | SK01 | Mode: AM Date/time: Thu 24-4-2008, 0800 UTC<br>Remarks: (Strong carrier, but no broadcast by 0810z.)<br>Contr: (MS)          |
| 8180.0 | SK01 | Mode: AM Date/time: Mon 28-4-2008, 0800 UTC<br>Remarks: (Came up in digital tfc for about a minute, then silence Contr: (MS) |
| 8186   | M08a | Mode: MCW Date/time: 23-4-2008, 0800 UTC<br>Remarks: ID 41611 10033 16441 Contr: (Jon-FL)                                    |
| 8186   | M08a | Mode: MCW Date/time: 26-4-2008, 0800 UTC<br>Remarks: ID 25021 04662 43742 (12345 67890)<br>Contr: (Jon-FL)                   |
| 8186   | M08a | Mode: MCW Date/time: 28-4-2008, 0800 UTC<br>Remarks: ID 01211 83703 73422 Contr: (Jon-FL)                                    |
| 8186   | M08a | Mode: MCW Date/time: 30-4-2008, 0600 UTC<br>Remarks: ID 55473 54851 04601 Contr: (Jon-FL)                                    |
| 8186.0 | M08a | Mode: MCW Date/time: Wed 2-4-2008, 0800 UTC<br>Remarks: ID 69071 21571 44630 Contr: (MS)                                     |
| 8186.0 | M08a | Mode: MCW Date/time: Wed 2-4-2008, 0800 UTC<br>Remarks: 5-fig cut numbers 21571 44630 69071<br>Contr: (Westli)               |
| 8186.0 | M08a | Mode: MCW Date/time: Sat 5-4-2008, 0800 UTC<br>Remarks: 5-fig cut numbers 44712 47601 38623<br>Contr: (Westli)               |
| 8186.0 | M08a | Mode: MCW Date/time: Sat 5-4-2008, 0800 UTC<br>Remarks: ID 38623 44712 47601 Contr: (MS)                                     |
| 8186.0 | M08a | Mode: MCW Date/time: Mon 7-4-2008, 0800 UTC<br>Remarks: 5-fig cut numbers 85211 31173 62771<br>Contr: (Westli)               |
| 8186.0 | M08a | Mode: MCW Date/time: Mon 7-4-2008, 0800 UTC<br>Remarks: ID 62771 85211 31173 Contr: (MS)                                     |
| 8186.0 | M08a | Mode: MCW Date/time: Wed 9-4-2008, 0800 UTC<br>Remarks: ID 23735 03245 15547 Contr: (MS)                                     |
| 8186.0 | M08a | Mode: MCW Date/time: Sat 12-4-2008, 0800 UTC<br>Remarks: ID 87822 05551 57561 Contr: (MS)                                    |
| 8186.0 | M08a | Mode: MCW Date/time: Mon 14-4-2008, 0800 UTC<br>Remarks: ID 70231 40101 61202 Contr: (MS)                                    |
| 8186.0 | M08a | Mode: MCW Date/time: Wed 16-4-2008, 0800 UTC<br>Remarks: ID 23341 45312 32481 Contr: (MS)                                    |
| 8186.0 | M08a | Mode: CW Date/time: Wed 16-4-2008, 0800 UTC<br>Remarks: 5-fig cut numbers 32481 23341 45312<br>Contr: (Westli)               |
| 8186.0 | M08a | Mode: MCW Date/time: Sat 19-4-2008, 0800 UTC                                                                                 |



|        |      |                                                                                                                 |
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|        |      | Remarks: 5-fig cut numbers 25181 53111 66663<br>Contr: (Westli)                                                 |
| 8186.0 | M08a | Mode: MCW Date/time: Mon 21-4-2008, 0800 UTC<br>Remarks: ID 69071 21571 12052 Contr: (MS)                       |
| 8186.0 | M08a | Mode: MCW Date/time: Mon 21-4-2008, 0800 UTC<br>Remarks: 5-fig cut numbers 69071 21571 12052<br>Contr: (Westli) |
| 8186.0 | M08a | Mode: MCW Date/time: Wed 23-4-2008, 0800 UTC<br>Remarks: ID 41611 10033 16441 Contr: (MS)                       |
| 8186.0 | M08a | Mode: MCW Date/time: Sat 26-4-2008, 0800 UTC<br>Remarks: ID 25021 04662 43742 Contr: (MS)                       |
| 8186.0 | M08a | Mode: MCW Date/time: Mon 28-4-2008, 0800 UTC<br>Remarks: ID 01211 83703 73422 Contr: (MS)                       |
| 8186.0 | M08a | Mode: MCW Date/time: Wed 30-4-2008, 0800 UTC<br>Remarks: ID 55473 54851 04601 Contr: (MS)                       |
| 8186.0 | M08a | Mode: MCW Date/time: Wed 30-4-2008, 0800 UTC<br>Remarks: 5-fig cut numbers 54351 04601 55473<br>Contr: (Westli) |
| 8196   | E11  | Mode: USB Date/time: Mon 14-4-2008, 0915 UTC<br>Remarks: 284/00 Contr: (FN)                                     |
| 8196   | E11  | Mode: USB Date/time: 14-4-2008, 0915 UTC<br>Remarks: 284/00 Contr: (RiN)                                        |
| 8196   | E11  | Mode: USB Date/time: Wed 16-4-2008, 0915 UTC<br>Remarks: 284/00 Contr: (FN)                                     |
| 8270   | S06  | Mode: AM Date/time: 2-4-2008, 1910 UTC<br>Remarks: "371" repeat Contr: (RiN)                                    |
| 8494.7 | MX   | Mode: CW Date/time: 18-4-2008, 1638 UTC<br>Remarks: Cluster beacon "D" Contr: (AB)                              |
| 8494.9 | MX   | Mode: CW Date/time: 18-4-2008, 1638 UTC<br>Remarks: Cluster beacon "S" Contr: (AB)                              |
| 8495.0 | MX   | Mode: CW Date/time: 17-4-2008, 1732 UTC<br>Remarks: Cluster beacon "C" Contr: (AB)                              |
| 8495.0 | MX   | Mode: CW Date/time: 18-4-2008, 1638 UTC<br>Remarks: Cluster beacon "C" Contr: (AB)                              |
| 8544   | E11  | Mode: USB Date/time: Fri 11-4-2008, 1230 UTC<br>Remarks: 312/00 Contr: (FN)                                     |
| 8544   | E11  | Mode: USB Date/time: Tue 15-4-2008, 1230 UTC<br>Remarks: 312/00 Contr: (FN)                                     |
| 8544   | E11  | Mode: USB Date/time: Tue 22-4-2008, 1230 UTC<br>Remarks: 312/00 Contr: (FN)                                     |
| 8650.0 | S06  | Mode: AM Date/time: 24-4-2008, 1230 UTC<br>Remarks: 314-587&7=44167 Contr: (HFD)                                |
| 8695.0 | S06  | Mode: AM Date/time: 25-4-2008, 0610 UTC<br>Remarks: 196 Contr: (HFD)                                            |
| 8759   | E11  | Mode: USB Date/time: Fri 11-4-2008, 1030 UTC<br>Remarks: 312/00 Contr: (FN)                                     |
| 8759   | E11  | Mode: USB Date/time: Tue 15-4-2008, 1030 UTC<br>Remarks: 312/00 Contr: (FN)                                     |

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| 8759.0 | E11  | Mode: USB Date/time: 25-4-2008, 1030 UTC<br>Remarks: 312/00 Ends with "Out" Contr: (KK2)                             |
| 8760.0 | S11a | Mode: AM Date/time: 24-4-2008, 1000 UTC<br>Remarks: 976/00 Contr: (HFD)                                              |
| 8837   | M22  | Mode: CW Date/time: 20-4-2008, 2150 UTC<br>Remarks: 4XZ Israeli Navy Contr: (BCI)                                    |
| 9040   | SK01 | Mode: AM Date/time: 1-4-2008, 0900 UTC<br>Remarks: 5x psk220fec 1x RDFT, very weak Contr: (Jon-FL)                   |
| 9040   | SK01 | Mode: RDFT Date/time: 3-4-2008, 0900 UTC<br>Remarks: Contr: (Jon-FL)                                                 |
| 9040   | SK01 | Mode: PSK31 Date/time: 8-4-2008, 0900 UTC<br>Remarks: psk220fec (very weak) Contr: (Jon-FL)                          |
| 9040   | SK01 | Mode: PSK31 Date/time: 10-4-2008, 0900 UTC<br>Remarks: psk220fec very weak Contr: (Jon-FL)                           |
| 9040   | SK01 | Mode: PSK31 Date/time: 15-4-2008, 0900 UTC<br>Remarks: psk220fec (weak) Contr: (Jon-FL)                              |
| 9040   | SK01 | Mode: PSK31 Date/time: 17-4-2008, 0900 UTC<br>Remarks: psk220fec weak Contr: (Jon-FL)                                |
| 9040   | SK01 | Mode: PSK31 Date/time: 22-4-2008, 0900 UTC<br>Remarks: psk220fec 33453 Contr: (Jon-FL)                               |
| 9040   | SK01 | Mode: PSK31 Date/time: 24-4-2008, 0900 UTC<br>Remarks: psk220fec weak Contr: (Jon-FL)                                |
| 9040   | SK01 | Mode: PSK31 Date/time: 29-4-2008, 0900 UTC<br>Remarks: psk220fec weak Contr: (Jon-FL)                                |
| 9040   | V02a | Mode: AM Date/time: 2-4-2008, 0900 UTC<br>Remarks: A xxxxx 31352 80301 (late start, no callup)<br>Contr: (Jon-FL)    |
| 9040   | V02a | Mode: AM Date/time: 9-4-2008, 0900 UTC<br>Remarks: A 76455 42857 52753 Contr: (Jon-FL)                               |
| 9040   | V02a | Mode: AM Date/time: 12-4-2008, 0900 UTC<br>Remarks: A 22342 63842 02363 Contr: (Jon-FL)                              |
| 9040   | V02a | Mode: AM Date/time: 16-4-2008, 0900 UTC<br>Remarks: A 56521 33722 11072 Contr: (Jon-FL)                              |
| 9040   | V02a | Mode: AM Date/time: 19-4-2008, 0900 UTC<br>Remarks: A 72261 30251 10052 Contr: (Jon-FL)                              |
| 9040   | V02a | Mode: AM Date/time: 23-4-2008, 0900 UTC<br>Remarks: A 61471 46513 38673 Contr: (Jon-FL)                              |
| 9040   | V02a | Mode: AM Date/time: 26-4-2008, 0900 UTC<br>Remarks: A 04662 13062 74331 Contr: (Jon-FL)                              |
| 9040   | V02a | Mode: AM Date/time: 30-4-2008, 0900 UTC<br>Remarks: A 23961 56431 64533 Contr: (Jon-FL)                              |
| 9040.0 | V02a | Mode: AM Date/time: Wed 2-4-2008, 0900 UTC<br>Remarks: SSSL 5-fig no calls noted, began msgs at 0904 Contr: (Westli) |
| 9040.0 | V02a | Mode: AM Date/time: Sat 12-4-2008, 0900 UTC<br>Remarks: A 22342 63842 02363 (YL/SS) Contr: (MS)                      |
| 9040.0 | V02a | Mode: AM Date/time: Wed 16-4-2008, 0900 UTC                                                                          |

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|        |      | Remarks: SSYL 5-fig atencion 56521 33722 11072<br>Contr: (Westli)                                                                 |
| 9040.0 | V02a | Mode: AM Date/time: Sat 19-4-2008, 0900 UTC<br>Remarks: SSYL 5-fig atencion 72261 30251 10052<br>Contr: (Westli)                  |
| 9040.0 | V02a | Mode: AM Date/time: Wed 23-4-2008, 0900 UTC<br>Remarks: SSYL 5-fig atencion 61471 46513 38613<br>ugly readability Contr: (Westli) |
| 9040.0 | V02a | Mode: AM Date/time: Wed 30-4-2008, 0900 UTC<br>Remarks: SSYL 5-fig atencion: 23961 56431 64533<br>Contr: (Westli)                 |
| 9057.0 | M51  | Mode: CW Date/time: 10-4-2008, 1531 UTC<br>Remarks: = NR 37 A 10 17:32:06 1980 = ZODXH<br>REZEK Contr: (BCI)                      |
| 9060   | M03c | Mode: CW Date/time: Fri 11-4-2008, 0815 UTC<br>Remarks: 554/36 == 77777 77777 62549 ... Contr: (FN)                               |
| 9060.0 | M03  | Mode: CW Date/time: 4-4-2008, 0815 UTC<br>Remarks: 552/00 Contr: (HFD)                                                            |
| 9063   | M08a | Mode: MCW Date/time: 2-4-2008, 0800 UTC<br>Remarks: ID 81815 51226 01071 Contr: (Jon-FL)                                          |
| 9063   | M08a | Mode: MCW Date/time: 4-4-2008, 0800 UTC<br>Remarks: ID 47617 65033 20868 Contr: (Jon-FL)                                          |
| 9063   | M08a | Mode: MCW Date/time: 9-4-2008, 0800 UTC<br>Remarks: ID 91531 42587 13132 Contr: (Jon-FL)                                          |
| 9063   | M08a | Mode: MCW Date/time: 11-4-2008, 0800 UTC<br>Remarks: ID 26335 42208 45326 Contr: (Jon-FL)                                         |
| 9063   | M08a | Mode: MCW Date/time: 16-4-2008, 0800 UTC<br>Remarks: ID 85313 34802 70313 Contr: (Jon-FL)                                         |
| 9063   | M08a | Mode: MCW Date/time: 18-4-2008, 0800 UTC<br>Remarks: ID 68621 25642 82532 Contr: (Jon-FL)                                         |
| 9063   | M08a | Mode: MCW Date/time: 23-4-2008, 0800 UTC<br>Remarks: ID 67241 62603 70822 Contr: (Jon-FL)                                         |
| 9063   | M08a | Mode: MCW Date/time: 23-4-2008, 0900 UTC<br>Remarks: ID 41611 10033 16441 Contr: (Jon-FL)                                         |
| 9063   | M08a | Mode: MCW Date/time: 25-4-2008, 0800 UTC<br>Remarks: ID 00141 02171 38661 Contr: (Jon-FL)                                         |
| 9063   | M08a | Mode: MCW Date/time: 26-4-2008, 0900 UTC<br>Remarks: Contr: (Jon-FL)                                                              |
| 9063   | M08a | Mode: MCW Date/time: 28-4-2008, 0900 UTC<br>Remarks: ID 01211 83703 73422 Contr: (Jon-FL)                                         |
| 9063   | M08a | Mode: MCW Date/time: 30-4-2008, 0800 UTC<br>Remarks: ID 91531 50272 58262 Contr: (Jon-FL)                                         |
| 9063   | M08a | Mode: MCW Date/time: 30-4-2008, 0900 UTC<br>Remarks: ID 55473 54851 04601 Contr: (Jon-FL)                                         |
| 9063.0 | M08a | Mode: MCW Date/time: Wed 2-4-2008, 0800 UTC<br>Remarks: 5-fig cut numbers 51225 01071 81815<br>Contr: (Westli)                    |
| 9063.0 | M08a | Mode: MCW Date/time: Wed 2-4-2008, 0800 UTC                                                                                       |

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|        |      | Remarks: ID 81815 51225 01071 Contr: (MS)    |
| 9063.0 | M08a | Mode: MCW Date/time: Fri 4-4-2008, 0800 UTC  |
|        |      | Remarks: ID 47617 65033 20868 Contr: (MS)    |
| 9063.0 | M08a | Mode: MCW Date/time: Sat 5-4-2008, 0900 UTC  |
|        |      | Remarks: 5-fig cut numbers 38623 44712 47601 |
|        |      | Contr: (Westli)                              |
| 9063.0 | M08a | Mode: MCW Date/time: Sat 5-4-2008, 0900 UTC  |
|        |      | Remarks: ID 38623 44712 47601 Contr: (MS)    |
| 9063.0 | M08a | Mode: MCW Date/time: Mon 7-4-2008, 0900 UTC  |
|        |      | Remarks: 5-fig cut numbers 85211 31173 62771 |
|        |      | Contr: (Westli)                              |
| 9063.0 | M08a | Mode: MCW Date/time: Wed 9-4-2008, 0800 UTC  |
|        |      | Remarks: 5-fig cut numbers 42587 13132 91531 |
|        |      | Contr: (Westli)                              |
| 9063.0 | M08a | Mode: MCW Date/time: Wed 9-4-2008, 0800 UTC  |
|        |      | Remarks: ID 91531 42587 13132 Contr: (MS)    |
| 9063.0 | M08a | Mode: MCW Date/time: Fri 11-4-2008, 0800 UTC |
|        |      | Remarks: ID 26335 42208 45316 Contr: (MS)    |
| 9063.0 | M08a | Mode: MCW Date/time: Sat 12-4-2008, 0900 UTC |
|        |      | Remarks: ID 87822 05551 57561 Contr: (MS)    |
| 9063.0 | M08a | Mode: MCW Date/time: Mon 14-4-2008, 0900 UTC |
|        |      | Remarks: 5-fig cut numbers 61202 70231 40101 |
|        |      | Contr: (Westli)                              |
| 9063.0 | M08a | Mode: MCW Date/time: Wed 16-4-2008, 0800 UTC |
|        |      | Remarks: 5-fig cut numbers 85313 34802 70313 |
|        |      | Contr: (Westli)                              |
| 9063.0 | M08a | Mode: MCW Date/time: Wed 16-4-2008, 0800 UTC |
|        |      | Remarks: ID 85313 34802 70313 Contr: (MS)    |
| 9063.0 | M08a | Mode: MCW Date/time: Wed 16-4-2008, 0900 UTC |
|        |      | Remarks: 5-fig cut numbers 32481 23341 45312 |
|        |      | Contr: (Westli)                              |
| 9063.0 | M08a | Mode: MCW Date/time: Fri 18-4-2008, 0800 UTC |
|        |      | Remarks: ID 68621 25642 82532 Contr: (MS)    |
| 9063.0 | M08a | Mode: MCW Date/time: Sat 19-4-2008, 0900 UTC |
|        |      | Remarks: 5-fig cut numbers 25181 53111 66663 |
|        |      | Contr: (Westli)                              |
| 9063.0 | M08a | Mode: MCW Date/time: Mon 21-4-2008, 0900 UTC |
|        |      | Remarks: 5-fig cut numbers 69071 21571 12052 |
|        |      | Contr: (Westli)                              |
| 9063.0 | M08a | Mode: MCW Date/time: Wed 23-4-2008, 0800 UTC |
|        |      | Remarks: ID 67241 62603 70822 Contr: (MS)    |
| 9063.0 | M08a | Mode: MCW Date/time: Wed 23-4-2008, 0800 UTC |
|        |      | Remarks: 5-fig cut numbers 67261 62603 70822 |
|        |      | Contr: (Westli)                              |
| 9063.0 | M08a | Mode: MCW Date/time: Wed 23-4-2008, 0900 UTC |
|        |      | Remarks: 5-fig cut numbers 16441 41611 10033 |
|        |      | Contr: (Westli)                              |
| 9063.0 | M08a | Mode: MCW Date/time: Wed 30-4-2008, 0800 UTC |

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|        |      | Remarks: 5-fig cut numbers 58262 91531 50272<br>Contr: (Westli)                                                                    |
| 9063.0 | M08a | Mode: MCW Date/time: Wed 30-4-2008, 0900 UTC<br>Remarks: 5-fig cut numbers 04601 55473 14351 weak<br>Contr: (Westli)               |
| 9063.0 | V02a | Mode: AM Date/time: Wed 2-4-2008, 0900 UTC<br>Remarks: SSYL 5-fig atencion 01140 31352 80301<br>Contr: (Westli)                    |
| 9063.0 | V02a | Mode: AM Date/time: Fri 4-4-2008, 0800 UTC<br>Remarks: SSYL 5-fig atencion 82435 62511 74343<br>Contr: (Westli)                    |
| 9063.0 | V02a | Mode: AM Date/time: Fri 11-4-2008, 0800 UTC<br>Remarks: SSYL 5-fig atencion 33451 53027 77676<br>Contr: (Westli)                   |
| 9063.0 | V02a | Mode: AM Date/time: Fri 18-4-2008, 0800 UTC<br>Remarks: SSYL 5-fig atencion 56523 46832 05633<br>Contr: (Westli)                   |
| 9065.0 | V02a | Mode: AM Date/time: Wed 2-4-2008, 0900 UTC<br>Remarks: Atencion 01140 31352 80301 call-up<br>repeated 8 times Contr: (Tob)         |
| 9069   | E07  | Mode: AM Date/time: 14-4-2008, 2020 UTC<br>Remarks: "105" repeat Contr: (RiN)                                                      |
| 9069.0 | E07  | Mode: AM Date/time: 7-4-2008, 2020 UTC<br>Remarks: 105:1 Contr: (HFD)                                                              |
| 9069.0 | E07  | Mode: AM Date/time: 21-4-2008, 2020 UTC<br>Remarks: 105:1-367/15=70814 Contr: (HFD)                                                |
| 9073   | M24  | Mode: CW Date/time: Thu 10-4-2008, 1928 UTC<br>Remarks: i.p., ends == 136 136 45 45 00000 Contr:<br>(FN)                           |
| 9073   | M24  | Mode: CW Date/time: Tue 15-4-2008, 1915 UTC<br>Remarks: 975 408 62 Contr: (FN)                                                     |
| 9073   | M24  | Mode: CW Date/time: Tue 22-4-2008, 1923 UTC<br>Remarks: i.p. ...29848 == 102 46 975 346 60 ==<br>22149 ...346 60 00000 Contr: (FN) |
| 9073   | M24  | Mode: CW Date/time: 24-4-2008, 1915 UTC<br>Remarks: "975" 102 46 - 93669 etc Contr: (RiN)                                          |
| 9075.5 | M42  | Mode: Crowd36 Date/time: 31-3-2008, 0913 UTC<br>Remarks: DOSC traffic Contr: (BCI)                                                 |
| 9084.5 | M51  | Mode: CW Date/time: 8-4-2008, 0607 UTC<br>Remarks: //6946 khz = NR 19 A 08 08:09:32 1980 =<br>ECQK Contr: (BCI)                    |
| 9095   | S06  | Mode: AM Date/time: 14-4-2008, 2015 UTC<br>Remarks: "285" 00000 Contr: (RiN)                                                       |
| 9095.0 | S06  | Mode: AM Date/time: 14-4-2008, 2015 UTC<br>Remarks: 285:0 Contr: (HFD)                                                             |
| 9101.0 | XPA  | Mode: AM Date/time: 1-4-2008, 2000 UTC<br>Remarks: msg Contr: (HFD)                                                                |
| 9101.0 | XPA  | Mode: AM Date/time: 4-4-2008, 2000 UTC                                                                                             |

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|--------|------|------------------------------------------------------------------------------------------------------------------------|
|        |      | Remarks: msg Contr: (HFD)                                                                                              |
| 9112   | M08a | Mode: MCW Date/time: 11-4-2008, 1000 UTC<br>Remarks: ID xxxxx 17826 00324 (in progress, missed callup) Contr: (Jon-FL) |
| 9112   | M08a | Mode: MCW Date/time: 14-4-2008, 1000 UTC<br>Remarks: ID 87331 12191 17342 (12345 67890 then M08a) Contr: (Jon-FL)      |
| 9112   | M08a | Mode: MCW Date/time: 18-4-2008, 1000 UTC<br>Remarks: ID 20641 71471 04622 Contr: (Jon-FL)                              |
| 9112   | M08a | Mode: MCW Date/time: 21-4-2008, 1000 UTC<br>Remarks: ID 38931 85991 26112 Contr: (Jon-FL)                              |
| 9112   | M08a | Mode: MCW Date/time: 27-4-2008, 1000 UTC<br>Remarks: ID 34601 27561 57233 Contr: (Jon-FL)                              |
| 9112.0 | M08a | Mode: MCW Date/time: Sun 6-4-2008, 1000 UTC<br>Remarks: 5-fig cut numbers 35303 45160 57261<br>Contr: (Westli)         |
| 9112.0 | M08a | Mode: MCW Date/time: Sun 6-4-2008, 1000 UTC<br>Remarks: ID 57261 35303 45160 Contr: (MS)                               |
| 9112.0 | M08a | Mode: MCW Date/time: Sun 13-4-2008, 1000 UTC<br>Remarks: ID 28583 81353 75081 Contr: (MS)                              |
| 9112.0 | M08a | Mode: MCW Date/time: Sun 20-4-2008, 1000 UTC<br>Remarks: ID 86081 57751 25873 Contr: (MS)                              |
| 9112.0 | M08a | Mode: MCW Date/time: Sun 20-4-2008, 1000 UTC<br>Remarks: 5-fig cut numbers 25873 86031 57751<br>Contr: (Westli)        |
| 9130   | E10  | Mode: AM Date/time: 20-4-2008, 1730 UTC<br>Remarks: EZI 2 Contr: (MUK)                                                 |
| 9130.0 | E06  | Mode: AM Date/time: 1-4-2008, 1400 UTC<br>Remarks: 147:0 Contr: (HFD)                                                  |
| 9145   | X06  | Mode: AM Date/time: 28-4-2008, 1944 UTC<br>Remarks: Mazielka. Sequence: 154632 Contr: (MUK)                            |
| 9151.0 | M08a | Mode: MCW Date/time: Wed 2-4-2008, 1300 UTC<br>Remarks: 5-fig cut numbers 83864 82178 00200<br>Contr: (Westli)         |
| 9151.0 | M08a | Mode: CW Date/time: Mon 14-4-2008, 1300 UTC<br>Remarks: 5-fig cut numbers 64752 80771 07403<br>Contr: (Westli)         |
| 9151.0 | M08a | Mode: CW Date/time: Mon 21-4-2008, 1300 UTC<br>Remarks: 5-fig cut numbers 46453 25813 20203<br>Contr: (Westli)         |
| 9151.0 | M08a | Mode: CW Date/time: Wed 30-4-2008, 1300 UTC<br>Remarks: 5-fig cut numbers weak Contr: (Westli)                         |
| 9152   | M08a | Mode: CW Date/time: 2-4-2008, 1300 UTC<br>Remarks: ID 16713 13473 50786 (various initial IDs)<br>Contr: (Jon-FL)       |
| 9152   | M08a | Mode: CW Date/time: 5-4-2008, 1200 UTC<br>Remarks: (TX problems) Contr: (Jon-FL)                                       |
| 9152   | M08a | Mode: CW Date/time: 7-4-2008, 1300 UTC                                                                                 |

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|--------|------|----------------------------------------------------------------------------------------------------------------------|
|        |      | Remarks: ID 75573 57302 16123 (uno, dos) Contr:<br>(Jon-FL)                                                          |
| 9152   | M08a | Mode: CW Date/time: 9-4-2008, 1300 UTC<br>Remarks: ID 52085 25847 67247 Contr: (Jon-FL)                              |
| 9152   | M08a | Mode: CW Date/time: 14-4-2008, 1300 UTC<br>Remarks: ID 24441 15353 31041 Contr: (Jon-FL)                             |
| 9152   | M08a | Mode: CW Date/time: 16-4-2008, 1300 UTC<br>Remarks: ID xxxxx 33231 67251 (late start, no callup)<br>Contr: (Jon-FL)  |
| 9152   | M08a | Mode: CW Date/time: 21-4-2008, 1300 UTC<br>Remarks: ID 25813 20203 46453 Contr: (Jon-FL)                             |
| 9152   | M08a | Mode: CW Date/time: 23-4-2008, 1300 UTC<br>Remarks: ID 31753 86712 72443 Contr: (Jon-FL)                             |
| 9152   | M08a | Mode: CW Date/time: 28-4-2008, 1300 UTC<br>Remarks: ID 30461 15142 82433 (dos) Contr: (Jon-FL)                       |
| 9152   | M08a | Mode: CW Date/time: 30-4-2008, 1300 UTC<br>Remarks: ID xxxxx 27002 10183 (late start, no callup)<br>Contr: (Jon-FL)  |
| 9153   | M08a | Mode: MCW Date/time: 2-4-2008, 0700 UTC<br>Remarks: ID 81815 51226 01071 Contr: (Jon-FL)                             |
| 9153   | M08a | Mode: MCW Date/time: 4-4-2008, 0700 UTC<br>Remarks: ID 47617 65033 20868 Contr: (Jon-FL)                             |
| 9153   | M08a | Mode: MCW Date/time: 9-4-2008, 0700 UTC<br>Remarks: ID 91531 42587 13132 Contr: (Jon-FL)                             |
| 9153   | M08a | Mode: MCW Date/time: 11-4-2008, 0700 UTC<br>Remarks: ID xxxxx 42208 45316 (late start, no callup)<br>Contr: (Jon-FL) |
| 9153   | M08a | Mode: MCW Date/time: 16-4-2008, 0700 UTC<br>Remarks: ID 85313 34802 70313 Contr: (Jon-FL)                            |
| 9153   | M08a | Mode: MCW Date/time: 18-4-2008, 0700 UTC<br>Remarks: ID 68621 25642 82532 Contr: (Jon-FL)                            |
| 9153   | M08a | Mode: MCW Date/time: 23-4-2008, 0700 UTC<br>Remarks: ID 67241 62603 70822 Contr: (Jon-FL)                            |
| 9153   | M08a | Mode: MCW Date/time: 25-4-2008, 0700 UTC<br>Remarks: ID 00141 02171 38661 Contr: (Jon-FL)                            |
| 9153   | M08a | Mode: MCW Date/time: 30-4-2008, 0700 UTC<br>Remarks: ID 91531 50272 58262 Contr: (Jon-FL)                            |
| 9153.0 | M08a | Mode: MCW Date/time: Wed 2-4-2008, 0700 UTC<br>Remarks: ID 81815 51225 01071 Contr: (MS)                             |
| 9153.0 | M08a | Mode: MCW Date/time: Wed 2-4-2008, 0700 UTC<br>Remarks: 5-fig cut numbers 51225 01071 81815<br>Contr: (Westli)       |
| 9153.0 | M08a | Mode: MCW Date/time: Fri 4-4-2008, 0700 UTC<br>Remarks: 5-fig cut numbers 65033 20868 47617<br>Contr: (Westli)       |
| 9153.0 | M08a | Mode: MCW Date/time: Fri 4-4-2008, 0700 UTC<br>Remarks: ID 47617 65033 20868 Contr: (MS)                             |
| 9153.0 | M08a | Mode: MCW Date/time: Fri 11-4-2008, 0700 UTC                                                                         |

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|        |      | Remarks: noted passing SW NA at 0703z Contr: (Westli)                                                           |
| 9153.0 | M08a | Mode: MCW Date/time: Wed 16-4-2008, 0700 UTC<br>Remarks: ID 85313 34802 70313 Contr: (MS)                       |
| 9153.0 | M08a | Mode: MCW Date/time: Fri 18-4-2008, 0700 UTC<br>Remarks: 5-fig cut numbers 82532 68621 25642<br>Contr: (Westli) |
| 9153.0 | M08a | Mode: MCW Date/time: Wed 23-4-2008, 0700 UTC<br>Remarks: (Too weak for copy.) Contr: (MS)                       |
| 9153.0 | M08a | Mode: MCW Date/time: Wed 23-4-2008, 0700 UTC<br>Remarks: 5-fig cut numbers 67261 62603 70822<br>Contr: (Westli) |
| 9167   | XPA  | Mode: AM Date/time: Tue 15-4-2008, 1440 UTC<br>Remarks: 431 000 01327 00001 00000 10140 +++<br>Contr: (FN)      |
| 9179   | X06  | Mode: AM Date/time: 28-4-2008, 1935 UTC<br>Remarks: Mazielka. Sequence: 164532 Contr: (MUK)                     |
| 9202.0 | E10  | Mode: AM Date/time: 14-4-2008, 1835 UTC<br>Remarks: YHF Contr: (BCI)                                            |
| 9220   | S06  | Mode: AM Date/time: 2-4-2008, 1900 UTC<br>Remarks: "371" 290 5 groups Contr: (RiN)                              |
| 9225   | S06  | Mode: AM Date/time: 14-4-2008, 0830 UTC<br>Remarks: "480" 735 40 87729 62964 15077 82703 etc<br>Contr: (RiN)    |
| 9235   | S06  | Mode: AM Date/time: 2-4-2008, 0830 UTC<br>Remarks: "481" 627 45 groups Contr: (RiN)                             |
| 9240   | SK01 | Mode: AM Date/time: 1-4-2008, 1000 UTC<br>Remarks: 1x psk220fec, very weak Contr: (Jon-FL)                      |
| 9240   | SK01 | Mode: RDFT Date/time: 3-4-2008, 1000 UTC<br>Remarks: Contr: (Jon-FL)                                            |
| 9240   | SK01 | Mode: PSK31 Date/time: 8-4-2008, 1000 UTC<br>Remarks: psk220fec (very weak) Contr: (Jon-FL)                     |
| 9240   | SK01 | Mode: PSK31 Date/time: 10-4-2008, 1000 UTC<br>Remarks: psk220fec very weak Contr: (Jon-FL)                      |
| 9240   | SK01 | Mode: PSK31 Date/time: 15-4-2008, 1000 UTC<br>Remarks: psk220fec (weak) Contr: (Jon-FL)                         |
| 9240   | SK01 | Mode: PSK31 Date/time: 17-4-2008, 1000 UTC<br>Remarks: psk220fec weak Contr: (Jon-FL)                           |
| 9240   | SK01 | Mode: PSK31 Date/time: 22-4-2008, 1000 UTC<br>Remarks: psk220fec 33453 Contr: (Jon-FL)                          |
| 9240   | SK01 | Mode: PSK31 Date/time: 24-4-2008, 1000 UTC<br>Remarks: psk220fec weak Contr: (Jon-FL)                           |
| 9240   | SK01 | Mode: PSK31 Date/time: 29-4-2008, 1000 UTC<br>Remarks: psk220fec weak Contr: (Jon-FL)                           |
| 9240   | V02a | Mode: AM Date/time: 2-4-2008, 1000 UTC<br>Remarks: A 01140 31352 80301 Contr: (Jon-FL)                          |
| 9240   | V02a | Mode: AM Date/time: 5-4-2008, 1000 UTC<br>Remarks: (very weak) Contr: (Jon-FL)                                  |



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| 9240   | V02a | Mode: AM Date/time: 9-4-2008, 1000 UTC<br>Remarks: A 76455 42857 52753 Contr: (Jon-FL)                                              |
| 9240   | V02a | Mode: AM Date/time: 12-4-2008, 1000 UTC<br>Remarks: A 22342 63842 02363 Contr: (Jon-FL)                                             |
| 9240   | V02a | Mode: AM Date/time: 16-4-2008, 1000 UTC<br>Remarks: A 56521 33722 11072 Contr: (Jon-FL)                                             |
| 9240   | V02a | Mode: AM Date/time: 19-4-2008, 1000 UTC<br>Remarks: A 72261 30251 10052 Contr: (Jon-FL)                                             |
| 9240   | V02a | Mode: AM Date/time: 23-4-2008, 1000 UTC<br>Remarks: A 61471 46513 38673 Contr: (Jon-FL)                                             |
| 9240   | V02a | Mode: AM Date/time: 26-4-2008, 1000 UTC<br>Remarks: A 04662 13062 74331 Contr: (Jon-FL)                                             |
| 9240   | V02a | Mode: AM Date/time: 30-4-2008, 1000 UTC<br>Remarks: A 23961 56431 64533 Contr: (Jon-FL)                                             |
| 9240.0 | V02a | Mode: AM Date/time: Sat 5-4-2008, 1000 UTC<br>Remarks: SSYL 5-fig atencion 71431 72760 53270<br>Contr: (Westli)                     |
| 9240.0 | V02a | Mode: AM Date/time: Sat 5-4-2008, 1004 UTC<br>Remarks: A ..... 72760 53270 (YL/SS. Already in<br>progress.) Contr: (MS)             |
| 9240.0 | V02a | Mode: AM Date/time: Wed 9-4-2008, 1000 UTC<br>Remarks: SSYL 5-fig atencion 76455 42851 52753<br>Contr: (Westli)                     |
| 9240.0 | V02a | Mode: AM Date/time: Sat 12-4-2008, 1000 UTC<br>Remarks: A 22342 63842 02363 (YL/SS) Contr: (MS)                                     |
| 9240.0 | V02a | Mode: AM Date/time: Sat 19-4-2008, 1000 UTC<br>Remarks: SSYL 5-fig atencion 72261 30251 10052<br>Contr: (Westli)                    |
| 9240.0 | V02a | Mode: AM Date/time: Sat 19-4-2008, 1000 UTC<br>Remarks: A 72261 30251 10052 (YL/SS) Contr: (MS)                                     |
| 9240.0 | V02a | Mode: AM Date/time: Wed 23-4-2008, 1000 UTC<br>Remarks: SSYL 5-fig atencion 61471 46513 38613<br>uglier readability Contr: (Westli) |
| 9240.0 | V02a | Mode: AM Date/time: Sat 26-4-2008, 1000 UTC<br>Remarks: A 04662 13062 74331 (YL/SS) Contr: (MS)                                     |
| 9243   | XPA  | Mode: AM Date/time: Thu 10-4-2008, 1940 UTC<br>Remarks: i.p. Contr: (FN)                                                            |
| 9255   | S06  | Mode: AM Date/time: 2-4-2008, 0830 UTC<br>Remarks: "471" repeat Contr: (RiN)                                                        |
| 9300   | X06  | Mode: AM Date/time: 3-4-2008, 0911 UTC<br>Remarks: Mazielka. Sequence: 121212 Contr: (RiN)                                          |
| 9300   | X06  | Mode: AM Date/time: 29-4-2008, 1020 UTC<br>Remarks: Mazielka. Sequence: 1--515 Contr: (JS3)                                         |
| 9327   | M12  | Mode: CW Date/time: Thu 10-4-2008, 1843 UTC<br>Remarks: i.p. Contr: (FN)                                                            |
| 9350.0 | M08a | Mode: CW Date/time: Wed 2-4-2008, 1400 UTC<br>Remarks: 5-fig cut numbers 13473 50786 16713<br>Contr: (Westli)                       |

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| 9353   | M08a | Mode: CW Date/time: 2-4-2008, 1400 UTC<br>Remarks: ID 16713 13473 50786 Contr: (Jon-FL)                                       |
| 9353   | M08a | Mode: CW Date/time: 7-4-2008, 1400 UTC<br>Remarks: ID 75573 57302 16123 Contr: (Jon-FL)                                       |
| 9353   | M08a | Mode: CW Date/time: 9-4-2008, 1400 UTC<br>Remarks: ID 83251 18381 72021 Contr: (Jon-FL)                                       |
| 9353   | M08a | Mode: CW Date/time: 14-4-2008, 1400 UTC<br>Remarks: (keying problems) Contr: (Jon-FL)                                         |
| 9353   | M08a | Mode: CW Date/time: 16-4-2008, 1400 UTC<br>Remarks: ID 31211 33231 67251 Contr: (Jon-FL)                                      |
| 9353   | M08a | Mode: CW Date/time: 21-4-2008, 1400 UTC<br>Remarks: ID 25813 20203 46453 Contr: (Jon-FL)                                      |
| 9353   | M08a | Mode: CW Date/time: 23-4-2008, 1400 UTC<br>Remarks: ID 31753 86712 72443 Contr: (Jon-FL)                                      |
| 9353   | M08a | Mode: CW Date/time: 28-4-2008, 1400 UTC<br>Remarks: ID 30461 15142 82433 Contr: (Jon-FL)                                      |
| 9353   | M08a | Mode: CW Date/time: 30-4-2008, 1400 UTC<br>Remarks: ID 14382 27002 10183 Contr: (Jon-FL)                                      |
| 9353.0 | M08a | Mode: CW Date/time: Wed 9-4-2008, 1400 UTC<br>Remarks: 5-fig cut numbers 83251 18381 72021<br>Contr: (Westli)                 |
| 9353.0 | M08a | Mode: CW Date/time: Wed 23-4-2008, 1400 UTC<br>Remarks: 5-fig cut numbers 72443 31752 86712<br>Contr: (Westli)                |
| 9353.0 | M08a | Mode: CW Date/time: Tue 29-4-2008, 1400 UTC<br>Remarks: 5-fig cut numbers 30461 15140 82433<br>Contr: (Westli)                |
| 9361   | M24  | Mode: CW Date/time: Mon 14-4-2008, 1430 UTC<br>Remarks: i.p. 38 wpm !, ends 1433z: 41298 72748 ==<br>847 50 ===== Contr: (FN) |
| 9363.0 | M08a | Mode: CW Date/time: Wed 30-4-2008, 1400 UTC<br>Remarks: 5-fig cut numbers 27002 10183 14382<br>Contr: (Westli)                |
| 9381.0 | M51  | Mode: CW Date/time: 17-4-2008, 0653 UTC<br>Remarks: = NR 36 A 17 09:01:19 1980 = TRAQW<br>OBMEU Contr: (BCI)                  |
| 9387.0 | E07  | Mode: AM Date/time: 3-4-2008, 2010 UTC<br>Remarks: 358:0 Contr: (HFD)                                                         |
| 9480.0 | S06  | Mode: AM Date/time: 9-4-2008, 0840 UTC<br>Remarks: 328 Contr: (HFD)                                                           |
| 9530.0 | M08a | Mode: CW Date/time: Mon 21-4-2008, 1400 UTC<br>Remarks: 5-fig cut numbers 46453 25813 20203<br>Contr: (Westli)                |
| 9576   | E11b | Mode: USB Date/time: Thu 10-4-2008, 0845 UTC<br>Remarks: 232/-- 77777 77777 17838 ... Contr: (FN)                             |
| 9576   | E11b | Mode: USB Date/time: Fri 11-4-2008, 0851 UTC<br>Remarks: i.p. Contr: (FN)                                                     |
| 9576.0 | E11  | Mode: USB Date/time: 11-4-2008, 0845 UTC                                                                                      |

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|         |      | Remarks: 231/37=77777 77777 17838 Contr: (HFD)                                                                     |
| 9610    | E11  | Mode: USB Date/time: 2-4-2008, 1100 UTC<br>Remarks: 186/00 Contr: (RiN)                                            |
| 9610    | E11  | Mode: USB Date/time: Wed 16-4-2008, 1100 UTC<br>Remarks: 186/00 Contr: (FN)                                        |
| 9750    | M23  | Mode: CW Date/time: 25-4-2008, 1300 UTC<br>Remarks: 757 (R10) //11170 Contr: (JPL-SE)                              |
| 9750    | M23  | Mode: CW Date/time: 26-4-2008, 1303 UTC<br>Remarks: 757 (Cont'd) //11170 kHz. Long pause Contr: (JPL)              |
| 9750    | M23  | Mode: CW Date/time: 27-4-2008, 1300 UTC<br>Remarks: 757 (R10) //11170. Long pause Contr: (JPL)                     |
| 9750    | M23  | Mode: CW Date/time: 28-4-2008, 1301 UTC<br>Remarks: 757 (R10) //11170 Contr: (JPL)                                 |
| 9923    | X06  | Mode: AM Date/time: 10-4-2008, 1532 UTC<br>Remarks: Mazielka. Sequence: 463125 Contr: (PUK)                        |
| 9923    | X06  | Mode: AM Date/time: 11-4-2008, 1520 UTC<br>Remarks: Mazielka. Sequence: 463125 Contr: (PUK)                        |
| 9923    | X06  | Mode: AM Date/time: 11-4-2008, 1520 UTC<br>Remarks: Mazielka. Sequence: 463125 Contr: (PUK)                        |
| 9960    | E11  | Mode: USB Date/time: Mon 14-4-2008, 1230 UTC<br>Remarks: 186/00 Contr: (FN)                                        |
| 9960    | E11  | Mode: USB Date/time: Mon 21-4-2008, 1230 UTC<br>Remarks: 186/00 Contr: (FN)                                        |
| 10118.0 | XPA  | Mode: AM Date/time: 25-4-2008, 0600 UTC<br>Remarks: msg Contr: (HFD)                                               |
| 10125   | M08a | Mode: CW Date/time: 5-4-2008, 0300 UTC<br>Remarks: ID 05237 15201 13535 (very weak) Contr: (Jon-FL)                |
| 10126.0 | M08a | Mode: CW Date/time: Sat 12-4-2008, 0300 UTC<br>Remarks: 5-fig cut numbers 36223 only call heard<br>Contr: (Westli) |
| 10128   | E07  | Mode: AM Date/time: 14-4-2008, 2000 UTC<br>Remarks: "105" 1 681 46 66078 13236 43157 33143<br>etc Contr: (RiN)     |
| 10128.0 | E07  | Mode: AM Date/time: 7-4-2008, 2000 UTC<br>Remarks: 105:1 Contr: (HFD)                                              |
| 10128.0 | E07  | Mode: AM Date/time: 21-4-2008, 2000 UTC<br>Remarks: 105:1-367/15=70814 Contr: (HFD)                                |
| 10193   | X06  | Mode: AM Date/time: 28-4-2008, 2001 UTC<br>Remarks: Mazielka. Sequence: 164532 Contr: (MUK)                        |
| 10243   | XPA  | Mode: AM Date/time: Tue 15-4-2008, 1920 UTC<br>Remarks: i.p., 1 msg, ended: 43241 +++++ Contr: (FN)                |
| 10270   | E06  | Mode: AM Date/time: Thu 10-4-2008, 1430 UTC<br>Remarks: 245 307 269 Contr: (FN)                                    |
| 10270   | X06  | Mode: AM Date/time: 4-4-2008, 0654 UTC<br>Remarks: Mazielka. Sequence: 532614 Contr: (RiN)                         |
| 10270   | X06  | Mode: AM Date/time: 4-4-2008, 0654 UTC                                                                             |

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| 10270.0 | E06  | Remarks: Mazielka. Sequence: 532614 Contr: (RiN)<br>Mode: AM Date/time: 9-4-2008, 1400 UTC<br>Remarks: 245-307/269=46184 Contr: (HFD) |
| 10335   | X06  | Mode: AM Date/time: 23-4-2008, 1902 UTC<br>Remarks: Mazielka/. Sequence: 154632 Contr: (RiN)                                          |
| 10345.0 | V02a | Mode: AM Date/time: Sat 5-4-2008, 1106 UTC<br>Remarks: A ..... 22871 42547 (YL/SS. Already in progress. Contr: (MS)                   |
| 10367   | XPA  | Mode: AM Date/time: Tue 15-4-2008, 1420 UTC<br>Remarks: 431 000 01327 00001 00000 10140 ++++<br>Contr: (FN)                           |
| 10429   | E11  | Mode: USB Date/time: 14-4-2008, 1600 UTC<br>Remarks: 885/00 Contr: (RiN)                                                              |
| 10432   | M08a | Mode: MCW Date/time: 11-4-2008, 0900 UTC<br>Remarks: ID xxxxx 17826 00324 (in progress, missed callup) Contr: (Jon-FL)                |
| 10432   | M08a | Mode: MCW Date/time: 14-4-2008, 0900 UTC<br>Remarks: ID 87331 12191 17342 Contr: (Jon-FL)                                             |
| 10432   | M08a | Mode: MCW Date/time: 18-4-2008, 0900 UTC<br>Remarks: ID 20641 71471 04622 Contr: (Jon-FL)                                             |
| 10432   | M08a | Mode: MCW Date/time: 21-4-2008, 0900 UTC<br>Remarks: ID 38931 85991 26112 Contr: (Jon-FL)                                             |
| 10432   | M08a | Mode: MCW Date/time: 27-4-2008, 0900 UTC<br>Remarks: ID 34601 27561 57233 Contr: (Jon-FL)                                             |
| 10432   | M08a | Mode: MCW Date/time: 28-4-2008, 0900 UTC<br>Remarks: ID 87302 76161 72501 Contr: (Jon-FL)                                             |
| 10432.0 | M08a | Mode: MCW Date/time: Sun 6-4-2008, 0900 UTC<br>Remarks: ID 57261 35303 45160 Contr: (MS)                                              |
| 10432.0 | M08a | Mode: CW Date/time: Sun 6-4-2008, 0900 UTC<br>Remarks: 5-fig cut numbers 35303 45160 57261<br>Contr: (Westli)                         |
| 10432.0 | M08a | Mode: MCW Date/time: Sun 20-4-2008, 0900 UTC<br>Remarks: 5-fig cut numbers 25873 86031 57751<br>Contr: (Westli)                       |
| 10445   | M08a | Mode: CW Date/time: 3-4-2008, 0300 UTC<br>Remarks: ID 45174 86132 73653 Contr: (Jon-FL)                                               |
| 10445   | M08a | Mode: CW Date/time: 10-4-2008, 0300 UTC<br>Remarks: ID 03132 46831 00037 Contr: (Jon-FL)                                              |
| 10445   | M08a | Mode: CW Date/time: 24-4-2008, 0300 UTC<br>Remarks: ID 17431 26153 88062 Contr: (Jon-FL)                                              |
| 10445.0 | M08a | Mode: CW Date/time: Thu 10-4-2008, 0003 UTC<br>Remarks: 5-fig cut numbers 46831 00037 03131<br>Contr: (Westli)                        |
| 10535   | X06  | Mode: AM Date/time: 10-4-2008, 1521 UTC<br>Remarks: Mazielka. Sequence: 564213 Contr: (PUK)                                           |
| 10535   | X06  | Mode: AM Date/time: 24-4-2008, 1517 UTC<br>Remarks: Mazielka. Sequence: 564213 Contr: (PUK)                                           |
| 10560   | E06  | Mode: AM Date/time: 2-4-2008, 1505 UTC                                                                                                |

|         |     |                                                                                                            |
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|         |     | Remarks: "457" 00000 Contr: (RiN)                                                                          |
| 10560.0 | E06 | Mode: AM Date/time: 2-4-2008, 1505 UTC<br>Remarks: 457:0 Contr: (HFD)                                      |
| 10598   | M12 | Mode: CW Date/time: Thu 10-4-2008, 1823 UTC<br>Remarks: i.p. Contr: (FN)                                   |
| 10601   | X06 | Mode: AM Date/time: 11-4-2008, 1740 UTC<br>Remarks: Mazielka. Sequence: 145632 Contr: (JS3)                |
| 10653   | X06 | Mode: AM Date/time: 11-4-2008, 0645 UTC<br>Remarks: Mazielka. Sequence: 356412 Contr: (PUK)                |
| 10703   | E07 | Mode: AM Date/time: 20-4-2008, 1720 UTC<br>Remarks: 171 1 436 69 Contr: (MUK)                              |
| 10703.0 | E07 | Mode: AM Date/time: 2-4-2008, 1720 UTC<br>Remarks: 171:1-978/63=10089 Contr: (HFD)                         |
| 10728   | M03 | Mode: CW Date/time: Tue 22-4-2008, 0745 UTC<br>Remarks: 503/00 Contr: (FN)                                 |
| 10728   | M03 | Mode: CW Date/time: Tue 29-4-2008, 0745 UTC<br>Remarks: 503/00 Contr: (FN)                                 |
| 10755   | M24 | Mode: CW Date/time: Thu 10-4-2008, 1903 UTC<br>Remarks: i.p., ends == 136 136 45 45 00000 Contr: (FN)      |
| 10755   | M24 | Mode: CW Date/time: Tue 15-4-2008, 1902 UTC<br>Remarks: i.p., null message ?, just heard 00000 Contr: (FN) |
| 10755   | M24 | Mode: CW Date/time: 24-4-2008, 1850 UTC<br>Remarks: "975" 346 60 - 22213 etc Contr: (RiN)                  |
| 10871.7 | MX  | Mode: CW Date/time: 2-4-2008, 1415 UTC<br>Remarks: Cluster beacon "D" Contr: (SW2)                         |
| 10871.7 | MX  | Mode: CW Date/time: 16-4-2008, 1838 UTC<br>Remarks: Cluster beacon "D" Contr: (AB)                         |
| 10871.7 | MX  | Mode: CW Date/time: 17-4-2008, 1732 UTC<br>Remarks: Cluster beacon "D" Contr: (AB)                         |
| 10871.9 | MX  | Mode: CW Date/time: 2-4-2008, 1416 UTC<br>Remarks: Cluster beacon "S" Contr: (SW2)                         |
| 10871.9 | MX  | Mode: CW Date/time: 16-4-2008, 1838 UTC<br>Remarks: Cluster beacon "S" Contr: (AB)                         |
| 10871.9 | MX  | Mode: CW Date/time: 17-4-2008, 1732 UTC<br>Remarks: Cluster beacon "S" Contr: (AB)                         |
| 10872.0 | MX  | Mode: CW Date/time: 2-4-2008, 1417 UTC<br>Remarks: Cluster beacon "C" Contr: (SW2)                         |
| 10872.0 | MX  | Mode: CW Date/time: 17-4-2008, 1732 UTC<br>Remarks: Cluster beacon "C" Contr: (AB)                         |
| 10961.0 | M51 | Mode: CW Date/time: 31-3-2008, 0913 UTC<br>Remarks: "NR J9 T 31 11:41:12 1980 BT BZVSP " Contr: (BCI)      |
| 11040.0 | S06 | Mode: AM Date/time: 9-4-2008, 0850 UTC<br>Remarks: 328 Contr: (HFD)                                        |
| 11103.0 | M51 | Mode: CW Date/time: 6-4-2008, 1650 UTC<br>Remarks: = NR 34 A 07 19:12:21 1980 = AXTIN VULZF                |

|         |      |                                                                                                                             |
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|         |      | SLZ Contr: (BCI)                                                                                                            |
| 11118.0 | XPA  | Mode: AM Date/time: 25-4-2008, 0620 UTC<br>Remarks: msg Contr: (HFD)                                                        |
| 11120.0 | E06  | Mode: AM Date/time: 1-4-2008, 1300 UTC<br>Remarks: 147:0 Contr: (HFD)                                                       |
| 11170   | M23  | Mode: CW Date/time: 25-4-2008, 1300 UTC<br>Remarks: 757 (R10) //9750 Contr: (JPL-SE)                                        |
| 11170   | M23  | Mode: CW Date/time: 26-4-2008, 1303 UTC<br>Remarks: 757 (Cont'd) //9750 kHz. Long pause Contr: (JPL)                        |
| 11170   | M23  | Mode: CW Date/time: 27-4-2008, 1300 UTC<br>Remarks: 757 (R10) //9750. Long pause Contr: (JPL)                               |
| 11170   | M23  | Mode: CW Date/time: 28-4-2008, 1301 UTC<br>Remarks: 757 (R10) //9750 Contr: (JPL)                                           |
| 11415.5 | M42  | Mode: Crowd36 Date/time: 10-4-2008, 1541 UTC<br>Remarks: DOSC Contr: (BCI)                                                  |
| 11424   | X06  | Mode: AM Date/time: 14-4-2008, 0900 UTC<br>Remarks: Mazielka. Sequence: 421635 Contr: (PUK)                                 |
| 11424   | X06  | Mode: AM Date/time: 28-4-2008, 0814 UTC<br>Remarks: Mazielka. Sequence: 421635 Contr: (PUK)                                 |
| 11435.0 | V02a | Mode: AM Date/time: Sat 5-4-2008, 0907 UTC<br>Remarks: A ..... 72760 53270 (YL/SS. NEW SKED!<br>Contr: (MS)                 |
| 11438   | X06  | Mode: AM Date/time: 4-4-2008, 0649 UTC<br>Remarks: Mazielka. Sequence: 532614 Contr: (RiN)                                  |
| 11467   | XPA  | Mode: AM Date/time: Tue 15-4-2008, 1400 UTC<br>Remarks: 431 000 01327 00001 00000 10140 +++<br>Contr: (FN)                  |
| 11486   | E11b | Mode: USB Date/time: Tue 22-4-2008, 0715 UTC<br>Remarks: 384/34 77777 77777 75285... Contr: (FN)                            |
| 11565   | M08a | Mode: CW Date/time: 10-4-2008, 0400 UTC<br>Remarks: ID 03132 46831 00037 (very weak) Contr: (Jon-FL)                        |
| 11565   | M08a | Mode: CW Date/time: 24-4-2008, 0400 UTC<br>Remarks: (in progress, missed callup) Contr: (Jon-FL)                            |
| 11565.0 | M08a | Mode: CW Date/time: Thu 24-4-2008, 0400 UTC<br>Remarks: 5-fig cut numbers weak Contr: (Westli)                              |
| 11566.0 | M08a | Mode: CW Date/time: Tue 1-4-2008, 0400 UTC<br>Remarks: 5-fig cut numbers heavy QRM poss c/ss<br>62441 46750 Contr: (Westli) |
| 11830   | S06  | Mode: AM Date/time: 2-4-2008, 0840 UTC<br>Remarks: "745" repeat Contr: (RiN)                                                |
| 11830.0 | S06  | Mode: AM Date/time: 9-4-2008, 0840 UTC<br>Remarks: 745 still on winter time in April Contr: (HFD)                           |
| 12093   | S06  | Mode: AM Date/time: Tue 22-4-2008, 0945 UTC<br>Remarks: 636 729 31 Contr: (FN)                                              |
| 12118.0 | XPA  | Mode: AM Date/time: 25-4-2008, 0640 UTC<br>Remarks: msg Contr: (HFD)                                                        |

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| 12123   | E07  | Mode: AM Date/time: 20-4-2008, 1700 UTC<br>Remarks: 171 1 436 69 Contr: (MUK)                                                  |
| 12123.0 | E07  | Mode: AM Date/time: 2-4-2008, 1700 UTC<br>Remarks: 171:1-978/63=10089 Contr: (HFD)                                             |
| 12135.9 | M51  | Mode: CW Date/time: 14-4-2008, 0927 UTC<br>Remarks: = NR 28 A 14 11:35:39 1980 = JOTQM<br>XGPQX Contr: (BCI)                   |
| 12136   | M12  | Mode: CW Date/time: Wed 23-4-2008, 1340 UTC<br>Remarks: 751 1 685 191 Contr: (FN)                                              |
| 12152   | X06  | Mode: AM Date/time: 2-4-2008, 0805 UTC<br>Remarks: Mazielka. Sequence: 432516 Contr: (JS3)                                     |
| 12152   | X06  | Mode: AM Date/time: 16-4-2008, 0740 UTC<br>Remarks: Mazielka. Sequence: 432516 Contr: (MUK)                                    |
| 12153   | E11  | Mode: USB Date/time: 2-4-2008, 0845 UTC<br>Remarks: 252/00 Contr: (RiN)                                                        |
| 12153   | E11  | Mode: USB Date/time: 14-4-2008, 0845 UTC<br>Remarks: 252/00 Contr: (RiN)                                                       |
| 12153   | E11  | Mode: USB Date/time: Wed 16-4-2008, 0845 UTC<br>Remarks: 252/00 Contr: (FN)                                                    |
| 12153.0 | E11  | Mode: USB Date/time: 14-4-2008, 0845 UTC<br>Remarks: 252/00 Contr: (HFD)                                                       |
| 12180   | M08a | Mode: MCW Date/time: 10-4-2008, 1900 UTC<br>Remarks: ID 26261 62061 85108 (change to V02a at 1902z) Contr: (Jon-FL)            |
| 12180   | V02a | Mode: AM Date/time: 3-4-2008, 1900 UTC<br>Remarks: A xxxxx 46501 88001 (in progress, missed callup) Contr: (Jon-FL)            |
| 12180   | V02a | Mode: AM Date/time: 8-4-2008, 1900 UTC<br>Remarks: Contr: (Jon-FL)                                                             |
| 12180   | V02a | Mode: AM Date/time: 10-4-2008, 1902 UTC<br>Remarks: A 58033 54444 80828 (changed from M08a)<br>Contr: (Jon-FL)                 |
| 12180   | V02a | Mode: AM Date/time: 24-4-2008, 1900 UTC<br>Remarks: A xxxxx xxxxx 43473 (in progress, missed callup) Contr: (Jon-FL)           |
| 12180.0 | M08a | Mode: CW Date/time: Thu 10-4-2008, 1900 UTC<br>Remarks: 5-fig cut numbers 26261 62060 55103 V2a starts at 1904 Contr: (Westli) |
| 12180.0 | V02a | Mode: AM Date/time: Thu 24-4-2008, 1900 UTC<br>Remarks: SSYL 5-fig atencion too weak to copy Contr: (Westli)                   |
| 12180.0 | V02a | Mode: AM Date/time: Tue 29-4-2008, 1900 UTC<br>Remarks: JIP 1705 SS/YL 5FGs QSN S-1 Unable to copy Contr: (TW2)                |
| 12190   | E06  | Mode: AM Date/time: 2-4-2008, 1405 UTC<br>Remarks: "457" 00000 Contr: (RiN)                                                    |
| 12190   | S06  | Mode: AM Date/time: Tue 15-4-2008, 1500 UTC<br>Remarks: 493 00000 Contr: (FN)                                                  |

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| 12190.0 | E06  | Mode: AM Date/time: 2-4-2008, 1405 UTC<br>Remarks: 457:0 Contr: (HFD)                                                 |
| 12190.0 | S06  | Mode: USB Date/time: 1-4-2008, 1500 UTC<br>Remarks: 493:0 Contr: (HFD)                                                |
| 12195   | X06  | Mode: AM Date/time: 10-4-2008, 1544 UTC<br>Remarks: Mazielka. Sequence: 314265 Contr: (PUK)                           |
| 12199   | X06  | Mode: AM Date/time: 7-4-2008, 1535 UTC<br>Remarks: Mazielka. Sequence: 532614 Contr: (MUK)                            |
| 12202   | M51  | Mode: CW Date/time: 25-4-2008, 0638 UTC<br>Remarks: = NR 65 A 25 18:41:14 1980 = FNAZU<br>AQMRWF WVD Contr: (BCI)     |
| 12205   | S06  | Mode: AM Date/time: Tue 29-4-2008, 0836 UTC<br>Remarks: i.p., ends 0843z: 510 43 00000 OM, fast<br>ending Contr: (FN) |
| 12213   | X06  | Mode: AM Date/time: Fri 11-4-2008, 0940 UTC<br>Remarks: Mazielka. Sequence: 615243 Contr: (FN)                        |
| 12224   | X06  | Mode: AM Date/time: 9-4-2008, 1431 UTC<br>Remarks: Mazielka. Sequence: 453125 Contr: (PUK)                            |
| 12224   | X06  | Mode: AM Date/time: 10-4-2008, 1523 UTC<br>Remarks: Mazielka. Sequence: 463125 Contr: (PUK)                           |
| 12224   | X06  | Mode: AM Date/time: 11-4-2008, 1510 UTC<br>Remarks: Mazielka. Sequence: 463125 Contr: (PUK)                           |
| 12224   | X06  | Mode: AM Date/time: 14-4-2008, 0936 UTC<br>Remarks: Mazielka. Sequence: 463125 Contr: (PUK)                           |
| 12224   | X06  | Mode: AM Date/time: 16-4-2008, 0800 UTC<br>Remarks: Mazielka. Sequence: 463125 Contr: (MUK)                           |
| 12224   | X06  | Mode: AM Date/time: 28-4-2008, 1541 UTC<br>Remarks: Mazielka. Sequence: 463125 Contr: (PUK)                           |
| 12224   | X06  | Mode: AM Date/time: 29-4-2008, 1410 UTC<br>Remarks: Mazielka. Sequence: 463125 Contr: (PUK)                           |
| 12229   | E11b | Mode: USB Date/time: Tue 15-4-2008, 1115 UTC<br>Remarks: 192/30 77777 77777 61789... Contr: (FN)                      |
| 12229.0 | E11  | Mode: AM Date/time: 22-4-2008, 1115 UTC<br>Remarks: 193/00 Contr: (HFD)                                               |
| 12397   | M03  | Mode: CW Date/time: Thu 10-4-2008, 0845 UTC<br>Remarks: 503/00 Contr: (FN)                                            |
| 12686.3 | M51  | Mode: CW Date/time: 31-3-2008, 1648 UTC<br>Remarks: "NR 0 T1 M 31 18:48:11 1980 BT BOLMA<br>OGEJK" Contr: (BCI)       |
| 12930.0 | E17z | Mode: USB Date/time: 11-4-2008, 0820 UTC<br>Remarks: 674-958/5=98109 Contr: (HFD)                                     |
| 13379   | M24  | Mode: CW Date/time: Thu 10-4-2008, 0946 UTC<br>Remarks: i.p., ends 69418 == 758 758 204 204 00000<br>Contr: (FN)      |
| 13380   | V02a | Mode: AM Date/time: 1-4-2008, 2000 UTC<br>Remarks: A 46221 2x534 54645 (very weak) Contr:<br>(Jon-FL)                 |
| 13380   | V02a | Mode: AM Date/time: 8-4-2008, 2000 UTC                                                                                |



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|         |      | Remarks: Contr: (Jon-FL)                                                                                                                     |
| 13380   | V02a | Mode: AM Date/time: 10-4-2008, 2000 UTC<br>Remarks: A 58033 54444 80828 Contr: (Jon-FL)                                                      |
| 13380   | V02a | Mode: AM Date/time: 15-4-2008, 2000 UTC<br>Remarks: (very weak) Contr: (Jon-FL)                                                              |
| 13380   | V02a | Mode: AM Date/time: 17-4-2008, 2000 UTC<br>Remarks: A xxxxx 38661 xxx22 (weak) Contr: (Jon-FL)                                               |
| 13380   | V02a | Mode: LSB Date/time: 18-4-2008, 0400 UTC<br>Remarks: A xxxxx 36031 26471 (weak, parallel 4479)<br>Contr: (Jon-FL)                            |
| 13380   | V02a | Mode: AM Date/time: 22-4-2008, 2000 UTC<br>Remarks: (weak) Contr: (Jon-FL)                                                                   |
| 13380   | V02a | Mode: AM Date/time: 24-4-2008, 2000 UTC<br>Remarks: A 46113 78811 43473 Contr: (Jon-FL)                                                      |
| 13380.0 | V02a | Mode: AM Date/time: Tue 1-4-2008, 2000 UTC<br>Remarks: A 78130 54078 41464 (YL/SS. Parallel broadcast on 7887m. Contr: (MS)                  |
| 13380.0 | V02a | Mode: AM Date/time: Tue 8-4-2008, 2000 UTC<br>Remarks: A 61791 30241 08583 (Very weak signal.)<br>Contr: (MS)                                |
| 13380.0 | V02a | Mode: AM Date/time: Thu 10-4-2008, 2000 UTC<br>Remarks: A 58033 54444 80828 (YL/SS) Contr: (MS)                                              |
| 13380.0 | V02a | Mode: AM Date/time: Tue 15-4-2008, 2000 UTC<br>Remarks: A 5227. 87183 75262 Contr: (MS)                                                      |
| 13380.0 | V02a | Mode: AM Date/time: Tue 22-4-2008, 2000 UTC<br>Remarks: A 13872 65541 04782 (YL/SS) Contr: (MS)                                              |
| 13380.0 | V02a | Mode: AM Date/time: Thu 24-4-2008, 2000 UTC<br>Remarks: SSSL 5-fig atencion too weak to copy Contr: (Westli)                                 |
| 13380.0 | V02a | Mode: USB Date/time: Mon 28-4-2008, 2000 UTC<br>Remarks: A 61791 47622 66332 (YL/SS.) Contr: (MS)                                            |
| 13386   | M12  | Mode: CW Date/time: Mon 7-4-2008, 0704 UTC<br>Remarks: 5FG garbled, starts again 725 1 01478..., stops, forgets GC Contr: (FN)               |
| 13401   | X06  | Mode: AM Date/time: 15-4-2008, 0848 UTC<br>Remarks: Mazielka. Sequence: 154263 Contr: (PUK)                                                  |
| 13419   | X06  | Mode: AM Date/time: 9-4-2008, 0726 UTC<br>Remarks: Mazielka. Sequence: 465132 Contr: (PUK)                                                   |
| 13420   | S06  | Mode: AM Date/time: 2-4-2008, 0700 UTC<br>Remarks: "729" 410 5 groups Contr: (RiN)                                                           |
| 13436   | M42  | Mode: Baudot 200/500 Date/time: 13-4-2008, 1240 UTC<br>Remarks: Russian Intel. Multifigure groups like 070903063966478109=83313 Contr: (PPA) |
| 13448   | X06  | Mode: AM Date/time: 17-4-2008, 0801 UTC<br>Remarks: Mazielka. Sequence: 162543 Contr: (PUK)                                                  |
| 13465   | X06  | Mode: AM Date/time: 16-4-2008, 1102 UTC<br>Remarks: Mazielka. Sequence: 362154 Contr: (RiN)                                                  |
| 13506   | X06  | Mode: AM Date/time: 10-4-2008, 0937 UTC                                                                                                      |

[illegible]

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| 14736   | M12  | Mode: CW Date/time: Wed 23-4-2008, 1300 UTC<br>Remarks: 751 1 685 191 Contr: (FN)                                           |
| 14810   | S06  | Mode: AM Date/time: Tue 29-4-2008, 1515 UTC<br>Remarks: 409 638 2 409 382 57 000000 OM, fast ending, 2 messages Contr: (FN) |
| 14863   | X06  | Mode: AM Date/time: 25-4-2008, 0748 UTC<br>Remarks: Mazielka. Sequence: 615243 Contr: (PUK)                                 |
| 14871   | X06  | Mode: AM Date/time: 8-4-2008, 1502 UTC<br>Remarks: Mazielka. Sequence: 156234 Contr: (RiN)                                  |
| 14871   | X06  | Mode: AM Date/time: 10-4-2008, 1511 UTC<br>Remarks: Mazielka. Sequence: 156234 Contr: (PUK)                                 |
| 14942   | X06  | Mode: AM Date/time: 2-4-2008, 1330 UTC<br>Remarks: Mazielka. Sequence: 325614 Contr: (JS3)                                  |
| 14942   | X06  | Mode: AM Date/time: 2-4-2008, 1352 UTC<br>Remarks: Mazielka. Sequence: 325614 Contr: (JS3)                                  |
| 15824.5 | M42  | Mode: Crowd36 Date/time: 31-3-2008, 0637 UTC<br>Remarks: DOSC traffic Contr: (BCI)                                          |
| 15828   | X06  | Mode: AM Date/time: 10-4-2008, 1556 UTC<br>Remarks: Mazielka. Sequence: 256134 Contr: (PUK)                                 |
| 15911.0 | M51  | Mode: CW Date/time: 16-4-2008, 1520 UTC<br>Remarks: //16241 kHz = NR 71 A 16 17:58:00 1980 = VDD Contr: (BCI)               |
| 16025   | X06  | Mode: AM Date/time: 8-4-2008, 1000 UTC<br>Remarks: Mazielka. Sequence: 156234 Contr: (MUK)                                  |
| 16025   | X06  | Mode: AM Date/time: 17-4-2008, 1222 UTC<br>Remarks: Mazielka. Sequence: 156234 Contr: (PUK)                                 |
| 16117   | X06  | Mode: AM Date/time: 3-4-2008, 0800 UTC<br>Remarks: Mazielka. Sequence: 463125 Contr: (MUK)                                  |
| 16144.5 | M42  | Mode: Crowd36 Date/time: 2-4-2008, 0806 UTC<br>Remarks: DOSC traffic Contr: (BCI)                                           |
| 16241.0 | M51  | Mode: CW Date/time: 16-4-2008, 1520 UTC<br>Remarks: //15911 kHz = NR 68 A 16 17:39:16 1980 = ATL Contr: (BCI)               |
| 16331.9 | MX   | Mode: CW Date/time: 2-4-2008, 1408 UTC<br>Remarks: Cluster beacon "D" Contr: (SW2)                                          |
| 16332   | MX   | Mode: CW Date/time: 20-4-2008, 1152 UTC<br>Remarks: Cluster beacon "C" Contr: (AB)                                          |
| 16332.0 | MX   | Mode: CW Date/time: 2-4-2008, 1408 UTC<br>Remarks: Cluster beacon "C" Contr: (SW2)                                          |
| 17410.0 | E10  | Mode: AM Date/time: 9-4-2008, 1525 UTC<br>Remarks: EZI 2 Contr: (BCI)                                                       |
| 17435   | SK01 | Mode: RDFT Date/time: 1-4-2008, 1600 UTC<br>Remarks: file 33641294.txt. Header 10x23233 Contr: (HS)                         |
| 17435   | SK01 | Mode: RDFT Date/time: 16-4-2008, 1600 UTC<br>Remarks: File 50109981.txt Contr: (HS)                                         |
| 17435   | SK01 | Mode: RDFT Date/time: 18-4-2008, 1600 UTC<br>Remarks: File 50109981.txt From: "Sam"                                         |

|       |      |                                                      |                                |
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|       |      | <swbfm1@talkta                                       | Contr: (TS)                    |
| 17435 | V02a | Mode: AM                                             | Date/time: 1-4-2008, 1700 UTC  |
|       |      | Remarks: A 40354 62834 67420 (tres)                  | Contr: (Jon-FL)                |
| 17435 | V02a | Mode: AM                                             | Date/time: 2-4-2008, 1700 UTC  |
|       |      | Remarks: A 64338 23102 43106                         | Contr: (Jon-FL)                |
| 17435 | V02a | Mode: AM                                             | Date/time: 3-4-2008, 1700 UTC  |
|       |      | Remarks: A 89361 88870 14001                         | Contr: (Jon-FL)                |
| 17435 | V02a | Mode: AM                                             | Date/time: 4-4-2008, 1700 UTC  |
|       |      | Remarks: A 16878 53730 51851 (tres)                  | Contr: (Jon-FL)                |
| 17435 | V02a | Mode: AM                                             | Date/time: 5-4-2008, 1700 UTC  |
|       |      | Remarks: A 36632 06043 73444 (weak)                  | Contr: (Jon-FL)                |
| 17435 | V02a | Mode: AM                                             | Date/time: 6-4-2008, 1700 UTC  |
|       |      | Remarks: A 79741 74820 47003                         | Contr: (Jon-FL)                |
| 17435 | V02a | Mode: AM                                             | Date/time: 7-4-2008, 1700 UTC  |
|       |      | Remarks: 60341 45521 15523                           | Contr: (Jon-FL)                |
| 17435 | V02a | Mode: AM                                             | Date/time: 8-4-2008, 1700 UTC  |
|       |      | Remarks: A 54072 07232 45442                         | Contr: (Jon-FL)                |
| 17435 | V02a | Mode: AM                                             | Date/time: 9-4-2008, 1700 UTC  |
|       |      | Remarks: A xxxxx 72540 65480 (late start, no callup) | Contr: (Jon-FL)                |
| 17435 | V02a | Mode: AM                                             | Date/time: 10-4-2008, 1700 UTC |
|       |      | Remarks: A xxxxx 20357 57483 (late start, no callup) | Contr: (Jon-FL)                |
| 17435 | V02a | Mode: AM                                             | Date/time: 11-4-2008, 1700 UTC |
|       |      | Remarks: A 03452 50862 66761                         | Contr: (Jon-FL)                |
| 17435 | V02a | Mode: AM                                             | Date/time: 12-4-2008, 1700 UTC |
|       |      | Remarks: A 73331 64242 72151                         | Contr: (Jon-FL)                |
| 17435 | V02a | Mode: AM                                             | Date/time: 13-4-2008, 1700 UTC |
|       |      | Remarks: A 81931 38541 07763                         | Contr: (Jon-FL)                |
| 17435 | V02a | Mode: AM                                             | Date/time: 14-4-2008, 1700 UTC |
|       |      | Remarks: (weak)                                      | Contr: (Jon-FL)                |
| 17435 | V02a | Mode: AM                                             | Date/time: 15-4-2008, 1700 UTC |
|       |      | Remarks: (weak)                                      | Contr: (Jon-FL)                |
| 17435 | V02a | Mode: AM                                             | Date/time: 16-4-2008, 1700 UTC |
|       |      | Remarks: (weak)                                      | Contr: (Jon-FL)                |
| 17435 | V02a | Mode: AM                                             | Date/time: 16-4-2008, 1711 UTC |
|       |      | Remarks: 5F msgs                                     | Contr: (TS)                    |
| 17435 | V02a | Mode: AM                                             | Date/time: 17-4-2008, 1700 UTC |
|       |      | Remarks: A 60243 38533 24543                         | Contr: (Jon-FL)                |
| 17435 | V02a | Mode: AM                                             | Date/time: 18-4-2008, 1700 UTC |
|       |      | Remarks: A 40832 71103 60543                         | Contr: (Jon-FL)                |
| 17435 | V02a | Mode: AM                                             | Date/time: 19-4-2008, 1700 UTC |
|       |      | Remarks: A 19921 14803 08032                         | Contr: (Jon-FL)                |
| 17435 | V02a | Mode: AM                                             | Date/time: 20-4-2008, 1700 UTC |
|       |      | Remarks: A xxxxx xxxxx 62563 (weak)                  | Contr: (Jon-FL)                |
| 17435 | V02a | Mode: AM                                             | Date/time: 21-4-2008, 1700 UTC |
|       |      | Remarks: (weak)                                      | Contr: (Jon-FL)                |
| 17435 | V02a | Mode: AM                                             | Date/time: 22-4-2008, 1700 UTC |

|         |      |                                                                                                                                    |
|---------|------|------------------------------------------------------------------------------------------------------------------------------------|
|         |      | Remarks: A 89361 43752 01283 Contr: (Jon-FL)                                                                                       |
| 17435   | V02a | Mode: AM Date/time: 23-4-2008, 1700 UTC<br>Remarks: A xxxxx 62763 72531 (late start, no callup)<br>Contr: (Jon-FL)                 |
| 17435   | V02a | Mode: AM Date/time: 24-4-2008, 1700 UTC<br>Remarks: A 85143 56231 00663 Contr: (Jon-FL)                                            |
| 17435   | V02a | Mode: AM Date/time: 25-4-2008, 1700 UTC<br>Remarks: A xxxxx 86561 28672 (late start, no callup)<br>Contr: (Jon-FL)                 |
| 17435   | V02a | Mode: AM Date/time: 26-4-2008, 1700 UTC<br>Remarks: A 40211 88452 53683 Contr: (Jon-FL)                                            |
| 17435   | V02a | Mode: AM Date/time: 27-4-2008, 1700 UTC<br>Remarks: A 27831 06152 63713 Contr: (Jon-FL)                                            |
| 17435   | V02a | Mode: AM Date/time: 28-4-2008, 1700 UTC<br>Remarks: A 34721 57652 73561 Contr: (Jon-FL)                                            |
| 17435.0 | V02a | Mode: AM Date/time: Sat 5-4-2008, 1700 UTC<br>Remarks: A 36632 06043 73444 (YL/SS.) Contr: (MS)                                    |
| 17435.0 | V02a | Mode: AM Date/time: Sun 6-4-2008, 1700 UTC<br>Remarks: (Strong carrier, but audio too weak for copy.<br>YL/SS.) Contr: (MS)        |
| 17435.0 | V02a | Mode: AM Date/time: Sat 12-4-2008, 1700 UTC<br>Remarks: (QRM blocking, uncopiable.) Contr: (MS)                                    |
| 17435.0 | V02a | Mode: AM Date/time: Sun 13-4-2008, 1700 UTC<br>Remarks: A 81931 38541 07763 (YL/SS) Contr: (MS)                                    |
| 17435.0 | V02a | Mode: AM Date/time: Sat 19-4-2008, 1700 UTC<br>Remarks: A - 19921 14803 08032 repetaed at<br>begining. Contr: (ANPR)               |
| 17435.0 | V02a | Mode: AM Date/time: Sat 19-4-2008, 1700 UTC<br>Remarks: (Strong carrier, but audio so weak that it is<br>uncopiable. Contr: (MS)   |
| 17435.0 | V02a | Mode: AM Date/time: Sun 20-4-2008, 1700 UTC<br>Remarks: Strong signal, SS/YL / 5 fg / Signal loud and<br>clear, 10+ db Contr: (EC) |
| 17435.0 | V02a | Mode: AM Date/time: Tue 22-4-2008, 1700 UTC<br>Remarks: A 89361 43752 01283 (YL/SS. Contr: (MS)                                    |
| 17435.0 | V02a | Mode: AM Date/time: Sun 27-4-2008, 0017 UTC<br>Remarks: Spanish Number Station, Strong Signal 59<br>+S9 Contr: (ENC)               |
| 17435.0 | V02a | Mode: AM Date/time: Sun 27-4-2008, 1700 UTC<br>Remarks: A 27831 06152 63713 (YL/SS. QRM very<br>heavy here.) Contr: (MS)           |
| 17435.0 | V02a | Mode: AM Date/time: Wed 30-4-2008, 1700 UTC<br>Remarks: A 02432 ..... Contr: (MS)                                                  |
| 17436   | SK01 | Mode: RDFT Date/time: 2-4-2008, 1600 UTC<br>Remarks: Contr: (Jon-FL)                                                               |
| 17436   | SK01 | Mode: RDFT Date/time: 2-4-2008, 1600 UTC<br>Remarks: file 33641294.txt. Header 10x23233. Same<br>as Contr: (HS)                    |

|         |      |                                                                                                                       |
|---------|------|-----------------------------------------------------------------------------------------------------------------------|
| 17436   | SK01 | Mode: RDFT Date/time: 8-4-2008, 1600 UTC<br>Remarks: Contr: (Jon-FL)                                                  |
| 17436   | SK01 | Mode: RDFT Date/time: 10-4-2008, 1600 UTC<br>Remarks: very weak Contr: (Jon-FL)                                       |
| 17436   | SK01 | Mode: RDFT Date/time: 15-4-2008, 1600 UTC<br>Remarks: File 50109981.txt Contr: (HS)                                   |
| 17436.0 | V02a | Mode: AM Date/time: Fri 4-4-2008, 1700 UTC<br>Remarks: SSYL 5-fig atencion 16878 53730 51851<br>Contr: (Westli)       |
| 17436.0 | V02a | Mode: AM Date/time: Sat 5-4-2008, 1700 UTC<br>Remarks: SSYL 5-fig atencion 36632 06043 73444<br>Contr: (Westli)       |
| 17436.0 | V02a | Mode: AM Date/time: Mon 7-4-2008, 1700 UTC<br>Remarks: SSYL 5-fig atencion 60341 45521 15523<br>Contr: (Westli)       |
| 17436.0 | V02a | Mode: AM Date/time: Tue 8-4-2008, 1700 UTC<br>Remarks: SSYL 5-fig tuned in late, missed calls Contr:<br>(Westli)      |
| 17436.0 | V02a | Mode: AM Date/time: Sat 19-4-2008, 1700 UTC<br>Remarks: SSYL 5-fig weak Contr: (Westli)                               |
| 17436.0 | V02a | Mode: AM Date/time: Tue 22-4-2008, 1700 UTC<br>Remarks: SSYL 5-fig very weak Contr: (Westli)                          |
| 17436.0 | V02a | Mode: AM Date/time: Thu 24-4-2008, 1700 UTC<br>Remarks: SSYL 5-fig atencion 85143 56231 00663<br>Contr: (Westli)      |
| 17436.0 | V02a | Mode: AM Date/time: Sat 26-4-2008, 1700 UTC<br>Remarks: SSYL 5-fig atencion weak with tone Contr:<br>(Westli)         |
| 17436.0 | V02a | Mode: AM Date/time: Sun 27-4-2008, 1700 UTC<br>Remarks: SSYL 5-fig atencion 27831 16152 63513<br>weak Contr: (Westli) |
| 17436.0 | V02a | Mode: AM Date/time: Tue 29-4-2008, 1700 UTC<br>Remarks: This sked started with a blank carrier Contr:<br>(TH2)        |
| 17515   | V02a | Mode: AM Date/time: 1-4-2008, 1600 UTC<br>Remarks: A 40354 62834 67420 Contr: (Jon-FL)                                |
| 17515   | V02a | Mode: AM Date/time: 2-4-2008, 1600 UTC<br>Remarks: A 64338 23102 43106 Contr: (Jon-FL)                                |
| 17515   | V02a | Mode: AM Date/time: 3-4-2008, 1600 UTC<br>Remarks: A 89361 88870 14001 Contr: (Jon-FL)                                |
| 17515   | V02a | Mode: AM Date/time: 4-4-2008, 1500 UTC<br>Remarks: A 16878 53730 51851 Contr: (Jon-FL)                                |
| 17515   | V02a | Mode: AM Date/time: 5-4-2008, 1600 UTC<br>Remarks: A 36632 06043 73444 (weak) Contr: (Jon-FL)                         |
| 17515   | V02a | Mode: AM Date/time: 6-4-2008, 1600 UTC<br>Remarks: A 79741 74820 47003 Contr: (Jon-FL)                                |
| 17515   | V02a | Mode: AM Date/time: 7-4-2008, 1600 UTC<br>Remarks: 60341 45521 15523 (very weak) Contr: (Jon-                         |

FL)

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|-------|------|----------------------------------------------------------------------------------------------------------------------------------|
| 17515 | V02a | Mode: AM Date/time: 8-4-2008, 1600 UTC<br>Remarks: A 03841 77422 67468 Contr: (Jon-FL)                                           |
| 17515 | V02a | Mode: AM Date/time: 9-4-2008, 1600 UTC<br>Remarks: A 24112 57871 04271 Contr: (Jon-FL)                                           |
| 17515 | V02a | Mode: AM Date/time: 10-4-2008, 1600 UTC<br>Remarks: A 69321 06232 07512 (change at 1612z)<br>Contr: (Jon-FL)                     |
| 17515 | V02a | Mode: AM Date/time: 10-4-2008, 1614 UTC<br>Remarks: A xxxxx 20357 57483 (dropout) Contr: (Jon-FL)                                |
| 17515 | V02a | Mode: AM Date/time: 11-4-2008, 1500 UTC<br>Remarks: A 63244 50422 46441 Contr: (Jon-FL)                                          |
| 17515 | V02a | Mode: AM Date/time: 12-4-2008, 1600 UTC<br>Remarks: A 73331 64242 72151 Contr: (Jon-FL)                                          |
| 17515 | V02a | Mode: AM Date/time: 13-4-2008, 1600 UTC<br>Remarks: A 81931 38541 07763 Contr: (Jon-FL)                                          |
| 17515 | V02a | Mode: AM Date/time: 14-4-2008, 1600 UTC<br>Remarks: A 36781 77732 56613 (weak) Contr: (Jon-FL)                                   |
| 17515 | V02a | Mode: AM Date/time: 15-4-2008, 1600 UTC<br>Remarks: A 13882 74651 54553 Contr: (Jon-FL)                                          |
| 17515 | V02a | Mode: AM Date/time: 16-4-2008, 1600 UTC<br>Remarks: A 56101 00653 24663 Contr: (Jon-FL)                                          |
| 17515 | V02a | Mode: AM Date/time: 17-4-2008, 1600 UTC<br>Remarks: (weak) Contr: (Jon-FL)                                                       |
| 17515 | V02a | Mode: AM Date/time: 18-4-2008, 1500 UTC<br>Remarks: A 40832 71103 60543 (weak) Contr: (Jon-FL)                                   |
| 17515 | V02a | Mode: AM Date/time: 19-4-2008, 1600 UTC<br>Remarks: (weak) Contr: (Jon-FL)                                                       |
| 17515 | V02a | Mode: AM Date/time: 20-4-2008, 1600 UTC<br>Remarks: A 22873 81202 62563 Contr: (Jon-FL)                                          |
| 17515 | V02a | Mode: AM Date/time: 21-4-2008, 1600 UTC<br>Remarks: A 04401 15312 48423 (several partial (Jon-FL) RDFT attempts) Contr: (Jon-FL) |
| 17515 | V02a | Mode: AM Date/time: 22-4-2008, 1600 UTC<br>Remarks: A 89361 43752 01283 Contr: (Jon-FL)                                          |
| 17515 | V02a | Mode: AM Date/time: 23-4-2008, 1600 UTC<br>Remarks: A 07453 62763 72531 (dos) Contr: (Jon-FL)                                    |
| 17515 | V02a | Mode: AM Date/time: 24-4-2008, 1600 UTC<br>Remarks: A 85143 56231 00663 Contr: (Jon-FL)                                          |
| 17515 | V02a | Mode: AM Date/time: 25-4-2008, 1500 UTC<br>Remarks: A 79741 86561 28672 (dropouts) Contr: (Jon-FL)                               |
| 17515 | V02a | Mode: AM Date/time: 26-4-2008, 1600 UTC<br>Remarks: A 40211 88452 53683 Contr: (Jon-FL)                                          |
| 17515 | V02a | Mode: AM Date/time: 27-4-2008, 1600 UTC<br>Remarks: (weak) Contr: (Jon-FL)                                                       |
| 17515 | V02a | Mode: AM Date/time: 28-4-2008, 1600 UTC                                                                                          |

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|---------|------|------------------------------------------------------------------------------------------------------------------------------------|
|         |      | Remarks: A 34721 57652 73561 (early end) Contr:<br>(Jon-FL)                                                                        |
| 17515   | V02a | Mode: AM Date/time: 29-4-2008, 1600 UTC<br>Remarks: A 05841 28381 43001 Contr: (Jon-FL)                                            |
| 17515.0 | V02a | Mode: AM Date/time: Fri 4-4-2008, 1600 UTC<br>Remarks: SSYL 5-fig atencion 16878 53730 51851<br>Contr: (Westli)                    |
| 17515.0 | V02a | Mode: AM Date/time: Sat 5-4-2008, 1600 UTC<br>Remarks: A 36632 06043 73444 (YL/SS.) Contr: (MS)                                    |
| 17515.0 | V02a | Mode: AM Date/time: Sat 5-4-2008, 1600 UTC<br>Remarks: SSYL 5-fig atencion 36632 06043 73444<br>Contr: (Westli)                    |
| 17515.0 | V02a | Mode: AM Date/time: Sun 6-4-2008, 1600 UTC<br>Remarks: (Strong carrier, but audio too weak for copy.<br>YL/SS.) Contr: (MS)        |
| 17515.0 | V02a | Mode: AM Date/time: Mon 7-4-2008, 1600 UTC<br>Remarks: SSYL 5-fig too weak to copy Contr: (Westli)                                 |
| 17515.0 | V02a | Mode: AM Date/time: Tue 8-4-2008, 1600 UTC<br>Remarks: SSYL 5-fig atencion 77422 .468 heavy<br>QRM QSB Contr: (Westli)             |
| 17515.0 | V02a | Mode: AM Date/time: Wed 9-4-2008, 1600 UTC<br>Remarks: SSYL 5-fig atencion 24112 57871 04271<br>Contr: (Westli)                    |
| 17515.0 | V02a | Mode: AM Date/time: Thu 10-4-2008, 1600 UTC<br>Remarks: SSYL 5-fig QRM from a steady carrier sends<br>msg to 69321 Contr: (Westli) |
| 17515.0 | V02a | Mode: AM Date/time: Sat 12-4-2008, 1600 UTC<br>Remarks: A 73331 64242 72151 (YL/SS) Contr: (MS)                                    |
| 17515.0 | V02a | Mode: AM Date/time: Sun 13-4-2008, 1600 UTC<br>Remarks: A 81931 38541 07763 (YL/SS) Contr: (MS)                                    |
| 17515.0 | V02a | Mode: AM Date/time: Tue 15-4-2008, 1600 UTC<br>Remarks: SSYL 5-fig started early. No calls noted.<br>Contr: (Westli)               |
| 17515.0 | V02a | Mode: AM Date/time: Thu 17-4-2008, 1600 UTC<br>Remarks: SSYL 5-fig atencion 60243 3853. 24543<br>Contr: (Westli)                   |
| 17515.0 | V02a | Mode: AM Date/time: Fri 18-4-2008, 1600 UTC<br>Remarks: SSYL 5-fig no cs noted Contr: (Westli)                                     |
| 17515.0 | V02a | Mode: AM Date/time: Sat 19-4-2008, 1600 UTC<br>Remarks: (Strong carrier, but audio so weak that it is<br>uncopiable. Contr: (MS)   |
| 17515.0 | V02a | Mode: AM Date/time: Sun 20-4-2008, 1600 UTC<br>Remarks: A 22873 81202 62563 (YL/SS) Contr: (MS)                                    |
| 17515.0 | V02a | Mode: AM Date/time: Sun 20-4-2008, 1625 UTC<br>Remarks: Strong signal strength, SS/YL / 5 fg . Contr:<br>(EC)                      |
| 17515.0 | V02a | Mode: AM Date/time: Tue 22-4-2008, 1600 UTC<br>Remarks: A 89361 43752 01283 (YL/SS) Contr: (MS)                                    |



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| 17515.0 | V02a | Mode: AM Date/time: Thu 24-4-2008, 1600 UTC<br>Remarks: SSYL 5-fig atencion 85143 56231 00663<br>Contr: (Westli)       |
| 17515.0 | V02a | Mode: AM Date/time: Sun 27-4-2008, 1600 UTC<br>Remarks: A 27831 06152 63713 (YL/SS) Contr: (MS)                        |
| 17515.0 | V02a | Mode: AM Date/time: Tue 29-4-2008, 1600 UTC<br>Remarks: SSYL 5-fig atencion 05841 28381 43001<br>Contr: (Westli)       |
| 17515.0 | V02a | Mode: AM Date/time: Tue 29-4-2008, 1600 UTC<br>Remarks: 05840 28281 43001 (YL/SS) Contr: (TH2)                         |
| 17515.0 | V02a | Mode: AM Date/time: Wed 30-4-2008, 1400 UTC<br>Remarks: SSYL 5-fig atencion: 12432 48712 84112<br>weak Contr: (Westli) |
| 17515.0 | V02a | Mode: AM Date/time: Wed 30-4-2008, 1600 UTC<br>Remarks: A ..... (Came into sked too late for<br>callups. Contr: (MS)   |
| 17575.0 | V02a | Mode: AM Date/time: Wed 23-4-2008, 1600 UTC<br>Remarks: SSYL 5-fig atencion 07453 32763 02531<br>weak Contr: (Westli)  |
| 18245.5 | M42  | Mode: Crowd36 Date/time: 7-4-2008, 1000 UTC<br>Remarks: DOSC Contr: (BCI)                                              |
| 18349   | X06  | Mode: AM Date/time: 3-4-2008, 0812 UTC<br>Remarks: Mazielka. Sequence: 161616 Contr: (RiN)                             |
| 18350   | X06  | Mode: AM Date/time: 3-4-2008, 0900 UTC<br>Remarks: Mazielka. Sequence: 161616 Contr: (MUK)                             |

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## RADIO DIRECTION FINDING by Fritz Nusser

### 1. Introduction

In fact the idea of Radio Direction Finding (RDF) already was born, when Heinrich Hertz discovered the directional property of radio waves. Antennas with directional qualities will enhance field strength of the wanted signal and suppress - in the best case - unwanted signals from different directions. In a first approximation we suspect the origin of the signal in the direction with the highest field strength. Two or more reasonably spaced RDF stations allow triangulation of the transmitter.

Military users soon recognized the value of additional tactical and strategic information and WW I and WW II brought us triumphant advances of RDF in all aspects. RDF is part of passive EWF (Electronic Warfare), the targeted station tries to radiate information in a narrow beam to its addressee, thus avoiding detection by RDF. Today equipment for all modes and wavelengths is sold, although RDF has lost importance as a navigational aid since the introduction of GPS.

Non-professional users as well can profit from RDF, if they opt for a suitable system. This short overview shows aspects of professional RDF and hopefully might give some advice to the inclined hobbyist.

## 2. A (very) short history of RDF

Early RDF systems were rotating dipoles and loops or the Star RDF.

The first ones yield ambiguous results with two maxima vertical to the plane (dipole) or in the plane (loop). A second signal from an isotropic auxiliary antenna had to be added to the signal to suppress the signal from the "wrong" side.

The Star RDF consisted of 48 longwires of 60 m length in a star-shaped array. A loop goniometer scanned the individual antennas for maximum signal. Already 1920 many merchant ships used RDF loops and 1922 German aircraft had loops and auxiliary antennas stretched in their wings for navigation as well as for RDF.

Bellini and Tosi invented the Bellini-Tosi Goniometer, but it took many years until production. A coil is rotated inside an electrical field fed from the N-S and E-W antenna signal components such finding the angle of maximum signal. The antenna can be a Crossed-Loop Antenna or an Adcock Antenna.

Adcock proposed an array of 4 or more vertical monopoles or dipoles erected in a circle; two opposite antennas deliver a signal from their direction. Obviously more antenna pairs yield stronger signals and higher accuracy. Krug Antennas (Wullenwebers) are a huge array of vertical elements, arranged in a multitude of concentric circles.

Watson-Watt fed the N-S and E-W signal components of the Bellini-Tosi Goniometer to the deflection plates of a CRT - real-time RDF became true. Later on the goniometer coil was motor-driven and both channels (and the auxiliary) used individual RF amplifiers for high sensitivity. This was the 3-channel RDF, widely used since around 1950. The early TELEGON Series from TELEFUNKEN were typical examples of that technique and if you ever were doomed to adjust those monsters for synchronous phase and gain in all three amplifiers, you'll remember for ever.

For HF the Adcock/Watson-Watt lay-out remained the standard system until today, although goniometer motors were replaced by solid-state devices and the long Adcock monopoles nowadays alternatively can be active verticals of 1m height (R&S) or Crossed-Loops with a vertical mono pole in the center of the ring. The synthesized receiver opened new horizons, because now results remotely commanded could be transmitted from all stations to the NCS: Automated RDF became reality. Digital results furthermore allowed the application of statistical methods for sampling and evaluation of results with a dramatic increase of accuracy and precision. Even site-inherent - and equipment errors could be corrected for now.

Doppler RDF systems use circularly arranged vertical dipoles, which are scanned. After each scanning cycle - a few ms - the difference in frequency between the

individual antennas (Doppler effect) allows the calculation of the direction of the radiation source.

The Correlation Interferometer RDF measures the angle of the incident wavefront by comparing the phase at different antenna elements of the array, which mostly is arranged in an L-shape.

DSP based RDF with sensor array processing allow quasi simultaneous handling of several waves arriving from different directions. They are the base for Multi channel RDF equipment where a multitude of parameters can be on display: DF values vs. frequency and time, signal strength vs. frequency, signal strength vs. time, etc. Thus even frequency hopping systems can be tackled.

So far we assumed fixed-site applications, but a few systems prove to be good for mobile use as well: Crossed-Loop Antennas (mostly shipboard), Adcock antennas for VHF/UHF (tactical DF, law enforcement) or Doppler arrays. The use of mobile systems is clearly limited by the dimensions of the antenna for a given frequency range, the constant rocking of the antenna (ships) and the ever changing reflections in varying surroundings.

Equipment for mobile near field RDF needs be mentioned here as well. It mostly is made up of loops or Ferrite Rod Antennas and is used for ground waves only. Ferrite antennas work fine for the purpose, although their sensitivity is low compared with loops, because of their very low Effective Height.

Another, military near-field, RDF I was trained on many years ago. It might be similar to the famous Kapsch "Guertelpeiler" from WW II. As far as I remember, the receiver somehow was buckled on the poor soldiers body, from there wires, the antenna, ran into each sleeve, the wrist-watch contained some controls and a howling tone in the earphones indicated: nearly there! What was meant to be an unobtrusive method to pinpoint clandestine stations raised a laugh when that guy turned up, spreading his arms like a scarecrow and consulting his wrist-watch....

### 3. Performance and limitations of RDF systems

For casual RDF rotating antennas (Ferrite rods for ground waves, directional beam antennas or loops for HF/VHF) will do the job. They are adjusted for minimum audio signal, which is easier to find than maxima. Results are ambiguous, but in many cases that's ok.

For professional systems amplitude-comparison Watson-Watt RDF is widely applied. The most used type of antennas are Adcocks and Crossed-Loops. An Adcock Antenna array consists of 4 to 12 vertical mono poles, rarely dipoles, arranged in one or two circles of 12 to 50 m diameter. The monopoles may be replaced by very smart active antennas of only 1 m height or by Crossed-Loops. A single Crossed-Loop is made of two loops, one mounted perpendicular inside the other. The diameter normally is around 1 m.

In phase-comparison systems three or more elements of an antenna array are such arranged, that the relative phases of their signals are unique for every incident wavefront. Bearings are computed by analyzing the relative phases. Correlation Interferometers antennas mostly are arranged in a L-shape of typically 50-150 m length, Doppler Antennas normally consist of a ring of dipoles. They mainly are used for VHF/UHF.

How do the different systems compare?

Auxiliary RDF with rotating antennas is not meant to compete with "grown-up" systems, but they can, in many cases, be of help to confirm a signals origin or suppress a source of noise - and that's not bad at all. However the use of directional beams is limited by their dimensions and direction sensing is not possible. Not tuned loops and especially Ferrite rods suffer from a low Effective Height resulting in poor sensitivity. There is no display of the bearing.

Dedicated Watson-Watt RDF with Crossed-Loops or Adcock Antennas present online bearings on a CRT or TFT. Digital data furthermore allow statistical evaluation and correction for systematic errors. Both antennas react sensitive on multi path reception and on reflections of the wavefront on nearby structures of "suitable" length. Crossed-Loops always should be mounted "on top". They don't like other antennas, buildings, chimneys or your clothesline. Adcocks are allergic to buildings and power lines. Crossed-loops are reasonable sensitive, but they are much affected by polarization errors in steep sky waves during the local night (Night Effect). Adcocks are much more tolerant of polarization errors and their sensitivity is much better than for crossed-loops. When an Adcock Antenna uses crossed-loops instead of mono poles "SSL" is possible: the systems can measure azimuth and elevation of the incident wavefront and calculate the distance to the source (only works for one hop).

Correlation Interferometers consist of 6...9 mono poles or Crossed-Loops arranged in L-shape or in a circle of about 50 m diameter. Incident waves up to about 80°(!) can be evaluated, the system is not sensitive for polarization errors. Interferometers are, contrary to loops and Adcocks, not sensitive for reflected waves, because they are, like Dopplers, wide-aperture systems. Wide-aperture in this context refers to antenna spacings near one wavelength or beyond. This means, that the software can handle site errors and correct them.

Professional fixed-site RDF for HF today will use either one of several possible Adcock Antenna arrays and a Watson-Watt bearing processor or a Correlation Interferometer with all the nice electronics associated. Results are not judged visually, sophisticated algorithms at the NCS employ statistical methods for filtering and correction of the bearing results.

#### 4. RDF for non-professional users

There is, after all, little doubt about what we would prefer for our station. But: only few people are lucky owners of a plot of land, free of power lines and

road traffic, ready to install a full sized Adcock Antenna. Costs are quite high and installation comprises concrete foundations with grounding meshes, cable connections buried in earth and a rather demanding site calibration. However, RDF for non-professionals is within reach, if we make some compromises.

If you decide, you would like to go beyond the possibilities of casual RDF, you might consider an untuned Crossed-Loop antenna with Watson-Watt bearing processor and CRT display. The antenna is small, installation is easy and the results are acceptable. Such equipment is produced mainly for navigational purposes onboard trawlers, if they don't want to rely on GPS only. After many e-mails and discussions I finally opted for Japanese company TAYO MUSEN's TD-C358, which since a few weeks is operational in my Shack. The equipment is distributed by several representatives; in my case Danish company Hans Buch A/S proved to be a good and reliable partner. Prices are locally fixed, the complete set sells at around EUR 10'000.-- (add VAT, transport and customs).

The RDF TD-C358 is specified for frequencies between 200 kHz and 16 MHz. It comes along with a Crossed-Loop Antenna of 0.8 m dia., 30 m of 7-core coax connecting cable (not to be shortened), an external loudspeaker, all manuals (including circuit diagrams and fault finding tables) and even some spare parts.

Installation is straightforward. The delivered antenna flange should be welded on top of a mast with the cable running inside. Adjust the antenna with a compass. The connecting cable must be fixed carefully, with 30 kg it is quite heavy. Use a sleeve, if exposed to the sun. Additionally any 50 Ohm antenna can be connected for receive-only mode. This RDF does not need an auxiliary antenna for sensing, the vertical signal component is taken from mid-tappings of the E-W and N-S coils within the antenna foot.

Antenna and receiver/bearing processor are for professional use on ships. Everything is very rugged and well made. No doubt, the TD-C358 is of good quality, but it is an old design. Its receiver, a double superheterodyne, may well be inferior to your receiver. It is optimized for RDF with a fixed bandwidth of 2 kHz; listen-through audio quality is poor. Modes are the usual ones, frequency is set manually, via keyboard or out of 400 memory channels. Manual AGC can optimize bearings of very strong signals, normal setting is "Auto". "Clarify" control operates as a BFO. After installation, the setup can be corrected via the keyboard for phase/amplitude errors in IF filters, cables, etc. The manual gives a list of test-points to measure before sealing the antenna foot.

Because I will change QTH next year, I didn't invest too much time in site evaluation. The antenna now is mounted only about 80 cm above the roof of a 4-storey building in town and although the view is splendid, there are conducting structures (air ducts, elevator cabinet, my other antennas, etc) within a few meters, which reflect selectively incoming wavefronts. The connecting cable runs horizontally a long way from the antenna, a bad solution too, which at least asks for Ferrite rings every few meters. I can't expect too much from this

installation, but it is reality and the results will improve next year. Every installation must include site-calibration. A professional near-field calibration in town is not possible and we depend on "real" stations of known origin good, reproducible signals. This procedure, for all frequencies and for all directions can be very time-consuming.

Operation of the TD-C358 is easy. In the absence of a signal you should see a trace-tangle in the centre of the CRT, stress in one direction indicates an interfering signal and this means, that any usable signal must be stronger. If the troublemaker is broadband and of local origin, you're in trouble. You may well hear the signal in between, but you can't see it in between. A suitable signal however will extend the beam to a propeller-shaped Lissajou figure in two directions. Strong signals will give long vectors on the display. By pressing "Sense" the figure is bent towards one side, thus indicating the direction to the transmitter. Bearings are read from the 360° scale. That is the ideal situation for RDF, often found with groundwaves or DX stations with low incident angles. Unfortunately practice is different, nearly always the bearing is unstable, it slowly swings around a mean value. Polarizing errors let the figure violently shake around 360° and RDF for some stations even is impossible. It needs a certain experience to find out the "correct" bearing: The vector length should be at or near maximum, the direction should be repeated and the sensed signal should be symmetric. "Correct" indicates, the system is working ok, but it cannot compensate for site-inherent errors. These can be very large or sensing becomes even impossible. Sounds horrible, but even big Adcock Antennas, under some conditions, will deliver results, which are completely wrong. What can be done then? The answer is: repeat measurements many times and, if possible, at different days - and that's exactly what commercial systems automatically are doing. With manual RDF short duration signals virtually are hopeless.

The quality of bearings therefore is very different. Bearings of ground waves normally will be within a few degrees off the true value. The same is valid for DX stations above 10 to 16 MHz, arriving under flat angles. Most other bearings will be true between +/- 5° up to +/- 25°, the last value often indicates, that measurement could not be repeated. A site calibration is an absolute must for reasonable results. Finally there is "mission impossible", no way to get any decent results: Signal too weak, steep incident angle, local reflections, etc. FSK transmissions sometimes create such problems, when the two, or more, frequencies cause totally different reflections and several vectors point in all directions.

Can we, under these circumstances, justify the whole effort to operate RDF? Yes, we can, because: RDF is just one of many ways to gather information on HF signals. This means that we normally have more facts, like language, call sign, propagation properties, transmission mode or skeds, which have to match our bearings. As an example, a network is heard on several frequencies and we wonder, if one or several transmitters are used. RDF will give an answer, even if the direction cannot be defined exactly. Or we can prove, a station is mobile,

because its movements are large enough, e.g. ships. Beware of Broadcasters, your strange bearing may be perfectly ok, but international services constantly change their transmitters Always, however, we can only find out the direction of a station and not the location; I cannot, from my QTH, discriminate between transmissions from Afghanistan, Pakistan or India and between China and the Korea purely by RDF.

To sum it up, the TD-C358 mostly will give good results, if enough bearings can be taken and if the installation has been properly calibrated; some experience is needed. When the bearings, for one or another reason, are inaccurate, they still will deliver valuable additional information. "Impossible" bearings and those, which quite simply are wrong, are system-inherent and have to be accepted, never try to "adjust" a bearing until it fits your theory.

I would wish, this may help you to decide, whether you might want to try RDF for yourself one day.

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| CK    | Costas, Southern Europe     |
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